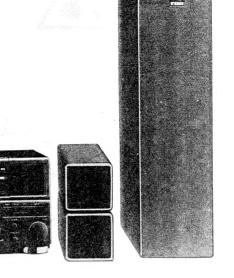
Service Manual

Compact Disc Hi-Fi Stereo System

DC - SF3 (WEST GERMANY) (ITALY)



Specifications

Fast forward/

Tuner FM: 87.5 - 108 MHz Frequency range MW: 522 - 1,611 kHz(W.Germany) MW: 526.5 - 1,606.5 kHz(Italy) LW: 144 - 290 kHz(W.Germany) LW: 148.5 - 283.5 kHz(Italy) FM: 2µV (mono) Sensitivity Amplifier Max. 15W + 15W + 25W (10% THD) Output power Input sensitivity/ PHONO: 7mV/50k ohms impedance

VIDEO: 150mV/50k ohms MID: 1 kHz +/-8 dB Tone control HIGH: 10 kHz +/-8 dB Cassette decks

4-track, 2-channel stereo Track system Chrome tapes: 40 - 15,000 Hz Frequency response Normal tapes: 40 - 13,000 Hz 58 dB(with DOLBY NR: ON) Signal to noise ratio Wow and flutter 0.12% (WRMS)

Approx. 120 sec. (C-60)

rewind time CD player 2-channel stereo, L/R in phase output Channels 44 1 kHz Sampling frequency 16-bit linear twin D/A converter D/A conversion Optical 3-beam semiconductor laser Pick-up 5 - 20,000 Hz Frequency response

Total harmonic 0.03% (1 kHz) distortion 90 dB Signal to noise ratio Below measurable limits Wow and flutter

PRODUCT CODE No. 129 344 03 (W.Germany) 129 344 04 (Italy)

General Power requirements Power consumption Dimensions(approx.) Weight(approx.) Speaker systems Overall frequency response (L/R speakers) Type Unit used Power handling capacity ... Nominal impedance Dimensions(approx.) Weight(approx.) (Dynamic bass speaker) Type Unit used Power handling capacity ... Nominal impedance Dimensions(approx.) Weight(approx.)

RB-SF3 remote controller Power source

Dimensions(approx.) Weight(approx.)

AC: 220V, 50HZ 360 (W) × 208 (H) × 330 (D) mm 7.8 kg

50 - 20,000Hz

Airtight full range dual peakers 8 cm cone type × 2 (integrated) Max. 30W (peak) 8 ohms $102 (W) \times 208 (H) \times 250 (D) mm$ 2 kg (per speaker)

Bass reflex 12 cm cone type Max. 50W (peak) 4 ohms 150 (W) × 570 (H) × 320 (D) mm 4.6 kg

60 (W) × 18 (H) × 190 (D) mm 50 q without batteries

DC: 3 V "R6/HP 7" battery , × 2

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol [] are tradenarks of Dolby Laboratories Licensing Corporation.

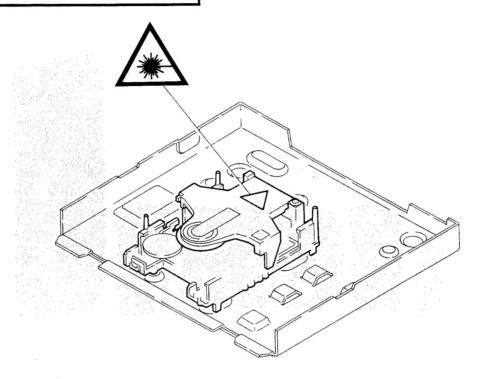
Specification subject to change without notice.

LASER BEAM SAFETY PRECAUTIONS

Do not look directly at the laser beam coming from the pick-up or allow it to strike against your fingers, skin, etc. Do not apply power if there is a broken part in the laser output section of the pick-up.

Structural Safety Interlock

This model has a disc chuck lever and top lid. This disc chuck lever and top lid prevent to expose the laser beam for users.



HANDLING THE PICK-UP

1. Shipping and storage cautions

- a. The pick-up must be stored in a conductive bag until immediately prior to its use.
- b. Do not drop it or subject it to impacts.

2. Repair cautions

- a. When handling the pick-up, be careful not to give it undue force or shock by your hands. Otherwise the pick-up may malfunction or the PCB may be cracked.
- b. The pick-up which has been minutely adjusted before shipment as one part. Never touch and move the adjusting points and setscrews of the pick-up unless otherwise described in the item of adjustment to avoid damage.

c. A strong magnet is used in the pick-up. Do not bring a magnet or other magnetized object near to it.

3. Cleaning the lens

- *If dust gets on the lens, clean it away by using an air brush such as used for a camera lens.
- *The lens is held in place by a spring.

 If the center of the lens is dirty, carefully dean it using cotton swab moistened with isopropylal cohol. Since special coating is made on the surface of the lens which is made of plastics, do not use other kind of alcohol and cleaning fluid to prevent damage to the lens. Also, be careful not to bend the lens spring when cleaning.

BEFORE REPAIRING THE CD PLAYER

1. Preparations

- a. Many ICs, LSI and the Pick-up (laser diode) are used in the compact disc player. These components are sensitive to static electricity, and might be damaged by static electricity or high voltage, so particular care should be taken regarding this point.
- b. Many precision components and the lens are used in the pick-up.

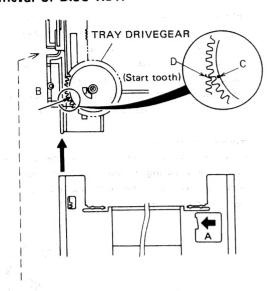
Never attempt to make repairs, or to store parts, where the temperature or humidity is high, where magnetism is strong, or where there is much dust.

2. Notes regarding repairs

- a. Be sure to first disconnect the power plug before attempting to replace any component.
- b. All tools, instruments, etc., used for measuring nust be grounded.
 - Grounding can be accomplished by using cold uctive metal sheet on the work bench.
- c. To prevent AV leakage of the soldering iron, gruend its metal part.
- d. Repair personnel must be grounded.

DISASSEMBLY (CD MECHANISM)

1. Removal of DISC TRAY

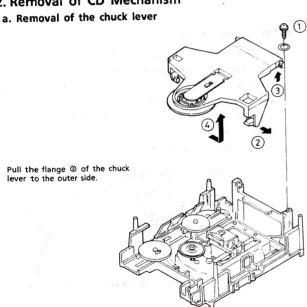


- a. Drive the mechanism to open end. OPEN / CLOSE
 Switch: Push ON
- b. Pull the TRAY off the mechanism. (Push the A rib of the TRAY to the direction of arrow and free from chassis rib.)
- c. Turn the PICK-UP drive gear (under chucking lever) slowly manual forward clockwise and move the slide to the front end.
- d. Match the guide groove of TRAY to the chassis guide and insert to the direction of arrow.
- e. Insert the TRAY to the mechanism after to match the C (tooth bottom) to the D (starting tooth) of TRAY rack. Then complete the close motion by OPEN/CLOSE Switch: Push ON.

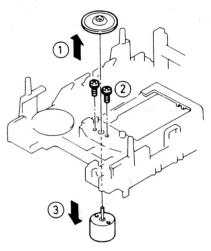
Note: Never tune the TRAY drive gear by hand directly in the all mechanism adjustment so that you will not wound the teeth of the TRAY drive gear.

(If the left slide obstructs the special screw, tune the PICK-UP drive gear a little.)

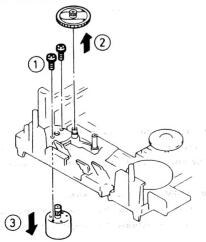
2. Removal of CD Mechanism



c. Removal of the spindle motor



b. Removal of the sled motor

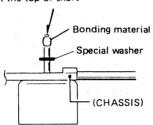


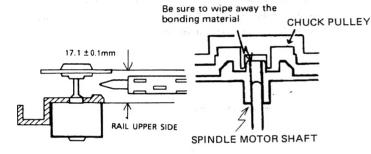
- First, prepare the new turn-table and new special washer for replacement. And prepare dial-type calipers.
 The removed turn-table will be deformed by the heat of the soldering iron, and cannot be reused.
- a. The attached bonding material can be dissolved by using a 60W soldering iron to heat the shaft at the lower part of the turn-table for about one minute.
- b. The turn-table can then be removed from the shaft by very carefully applying force upward at the center of the lower surface of the turn-table.
- c. Remove the two screw and remove the spindle motor.
- d. Attach the special washer to the spindle motor.
- e. Apply a small amount of a mixture(50: 50) of the "Three Bond 2001" and "2105F" bonding materials to the motor's shaft.

DISASSEMBLY (CD MECHANISM)

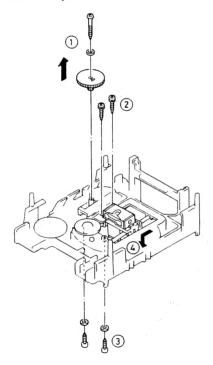
- f. Install the turn-table as shown in the figure.
- g. Secure the tune-table by pressing gently. Be sure to wipe away (by using a piece of cloth, or similar material) any bonding material coming out of the hole.

Don't attached bonding material at the top of shaft



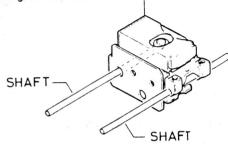


d. Removal of the Pick-up



e. Replacement and lubrication of the Pick-up

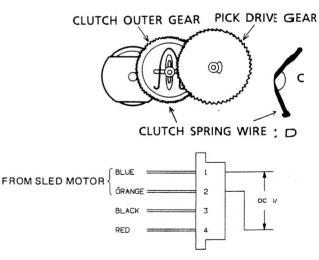
- a. Before replacement of the pick-up, be sure to carefully read the section regarding the pick-up when the unit is moved or transported.
- b. Remove the two pick-up rail with care fixing the 2 latch with any way driver from bottom of chassis.
- c. When replacing the pick-up, carefully wipe away the grease from the shafts on which the pick-up is mounted.
- d. Replace the pick-up.
- e. Move the pick-up to the position at the left side, and then apply a coating of floil (G-474B) to the shafts.
- f. Move the pick-up to the right side and apply floil to the remaining of the shafts. PICK UP



f. Inspection of slip current

Stop the TRAY on opening by force, check the slip mechanism (next gear assembly of motor)

- a. Confirm that the inner gear stops and outer gear and motor's gear rotates.
- Confirm that the scale of control meter is 225mV ~ 275mV. (8)
- c. Check this slip inspection on DC 6.0V.



* In the case of that DC current scale don't display 225mV ~ 275mV, adjust to below items. read current value: A · amount of the grease (Silion <3333):

B

bender angle of the spring wire D: C

A > $275mV \rightarrow increase$ the angle C or decrease §

A < 225mV → decrease the angle C or increase ■

CD ADJUSTMENT

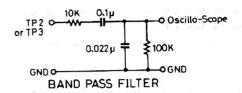
Electrical Adjustment

So far we have presented explanations regarding compact disc player handling, notes prior to repair, handling the pick-up and disassembly of the unit. Be sure to carefully read these instructions before making any adjustments.

Test discs required for adjustments and checks

No.	Destination	Description (manufacturer)
1	414 245-2	for Demonstration (Polygram)

Note: Test disc are subject to change without notice.



Preparations for Adjustments

Measuring instruments, tools and filter

(1) Test disc.: YEDS 7,-10dB, 1KHz (Sony)

(2) Oscilloscope: SS5711 (10MHz or dual phenomenon)

or Memoryscope: DSS6521 (Storagescope)

(3) Digital voltmeter (Input impedance 1M ohm or more)

(4) Oscillator (400Hz, 300mV RMS)

(5) Frequency Counter (5MHz; or more)

(6) Screw drivers (non-metalic) for adjustments

(7) Filter

(8) DC Power supply: 15V, 1A Class

Notes: a. The adjustments can be using the equipment produced by other manufactures provided that the performance of that equipment corresponds to that of the above listed models.

b. Use a 10:1 probe for observing signals on the oscilloscope and storage scope.

c. Test disc is subject change without notice.

1. Initial set up

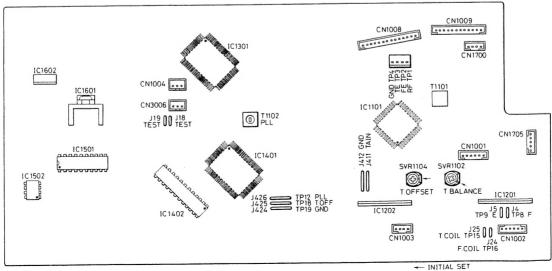
Set the initial position of adjustment controls as shown in figure below.

2. Free-run Frequency adjustment(PLL-VCO)

- 1. Disconnect the connector (CN1001) from the pick-up.
- 2. Connect the frequency counter to TP12(H), TP4(GND).
- 3. Turn on the power of the unit.
- Adjust T1102 so that the frequency counter shows 4.30 ± 0.01MHz.
 - if the adjustment is imperfect, get the long seek time, not read TOC, not sound. in the worst case become high speed turning, reveres turning and it may wound the disc.

3. Tracking Offset Adjustment (adjustment location | SVR1104)

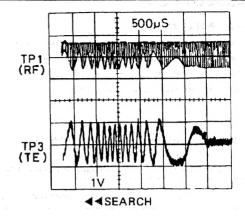
- Connect the oscilloscope to TP15 (H), TP4 (GND) and shot TP18(T Off), TP4(GND).
- 2. Turn on the power of the unit.
- 3. Adjust SVR1104 so that the DC voltage at TP15 is $60\text{mV}\pm20\text{mV}$.
- If the adjustment is imperfect, become inferior playability can not playback the disc.



CD ADJUSTMENT-

4. Tracking Balance Adjustment (SVR1102)

- 1. Connect the oscilloscope to TP3 (TE) and TP4 (GND.).
- 2. Turn on the power of the unit. Insert test disc.
- 3. Press the play button.
- Continuously press the forward search → or → button to do it
- .5. Adjust SVR1102 so that the TE (Tracking Error) signal waveform of TP3 on the oscilloscope is vertically symmetrical relative to 0V. (See figure below)
- *If the adjustment is imperfect, become run away the spindle motor(pick-up sending motor), inferior playability.

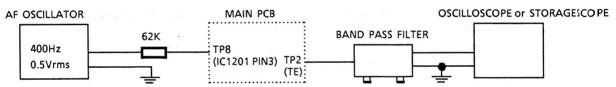


5. FOCUS Gain CONFIRMATION

- 1. Connect the storage scope to TP2 (F.E) by the Band pass filter. (See BPF Figure)
- 2. Turn on the power of the unit.
- 3. play the test disc.

- 4. Set the output of AF oscillator to 400Hz, 0.5V rms and connect to TP8 (IC1201 pin 3) by resistor 62k ohm.
- Confirm so that the voltage of F.E signal waveform on the storage scope is 1V p-p, ±3db by through BPF.

*If this CONFIRMATION is imperfect, become weak the mechanical shock, inferior playability, and can not playback the Disc.

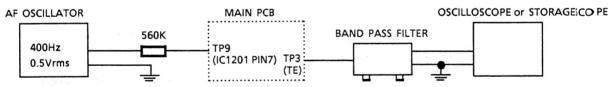


6. Tracking Gain CONFIRMATION

- 1. Connect the storage scope to TP3 (T.E) by the Band pass filter. (See BPF Figure).
- 2. Turn on the power of the unit.
- 3. playback the test disc.

- 4. Set the output of AF oscillator to 400Hz, 0.5V rms and connect to TP9 (IC1201 pin 7) by resistor 560k ohm.
- 5. Confirm so that the voltage of T.E signal waveform on the storagescope is 1V p-p, ±3db by through BPF.

*If this CONFIRMATION is imperfect, become weak the mechanical shock, inferior playability, and can not playback the Disc.



TUNER ADJUSTMENT -

• Use a plastic screwdriver for adjustment.

• Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

RF Level: 75 ohm, Open SG voltage $dB\mu V$

(1) FM BAND Antenna: 75 ohm Direct Modulation: 1kHz, ±75kHz dev.

			FREQUENCY	INPUT CONDI	TIONS	OUTPUT CON	DITIONS	ADJUST-	and the second
STEP	STEP ITEMS		INDICATED POSITION	MEASURING INSTRUCTIONS	CONNECT-	MEASURING INSTRUCTIONS	CONNECT- IONS	ING PARTS	STANDARDS
		V-Curve		FM Sweep Generator (10.7MHz		FM Sweep	TP2205(H) TP2102(E)	T2201	Max.
1	IF I	S-Curve	98.0 MHz	Non Modulation Small Input)	TP2102(E)	Generator	TP2204(H) TP2102(E)	T2202	Symmetrical Wave Max.
	Tuning	Low	87.5 MHz		1	Digital	TP2401(H)	L2104	1.2~1.25V
2	Cover	High	108.0 MHz			Voltmeter	TP2102(E)	Balance Communication is	Confirm voltage below 8.0V
	Lo		90.0 MHz	FM-SG(9dB)	FM ANT	VTVM	Tuner Out	L2101 L2102	ત અહિંહિત પ Max.
3	3 Tracking High	106.0 MHz	Terminal		Oscilloscope	(L/R&E)	CT2101		
4		-Curve 0V)	98.0 MHz	FM-SG(66dB)	FM ANT Terminal	VTVM Oscilloscope	TP2201(H) TP2202(E)	T2202	O ± 0.05V
5		SD	98.0 MHz	(26dB)	FM ANT Terminal	Frequency Counter	TP2207(H) TP2102(E)	SVR2201	SD Output low (Auto stop sensitivity)
6	* vco	(19 kHz)	98.0 MHz	FM-SG(66dB) (Non Modulation)	FM ANT Terminal	Digital Voltmeter	TP2301(H) TP2102(E)	SVR2302	19 ± 0.05kHz
7	Separation		98.0 MHz	FM-SG(66dB) (Stereo)	FM ANT Terminal	VTVM Oscilloscope	Tuner Out (L/R&E)	SVR2301	Max. L/R ratio

Standard input Modulation for Separation : Main(L+R) : $\pm 40kHz$ dev. Pilot : $\pm 6.75kHz$ dev.

Note: TP2202 is no earth point. Be careful so that digital voltmeter earth (including case) may not be in contact with other measuring equipments earth. (including case)

(2) MW BAND

Antenna: IRE Loop, Standard output: 100dB, Modulation: 1kHz 30%

			FREQUENCY	INPUT CONDI	TIONS	OUTPUT CON	DITIONS	ADJUST-	
STEP	ITEMS		INDICATED POSITION	MEASURING INSTRUCTIONS	CONNECT- IONS	MEASURING INSTRUCTIONS	CONNECT- IONS	ING PARTS	STANDARDS
1	IF(999k)	Hz)	459 kHz	AM Sweep Generator (459kHz Non Modulation)	TP2151(H)	AM Sweep Generator	TP2206(H) TP2102(E)	X2205	Max.
	Tuning	Low	522 kHz			Digital	TP2401(H)	L2151	1_4±0.03V
2	Cover	High	1611 kHz			Voltmeter	TP2102(E)	CT2152	8 _0 ±0.05V
		Low	603 kHz		IRE Loop	VTVM	Tuner Out	L2152	M
3	Tracking	High	1404 kHz	AM-SG(78dB)	Ant.	Oscilloscope	(L/R&E)	CT2151	Max.
4	SD		999 kHz	AM-SG(85dB)	IRE Loop Ant.	Digital Voltmeter	TP2207(H) TP2205(E)	SVR2202	Si Output low Auto stop sensitivity)

^{*:} Use IHF filter adjusted from 200~15000 Hz BPF. Set the Mode switch to STEREO position. When connect counter should be inserted 220k ohm resist in series.

TUNER ADJUSTMENT -

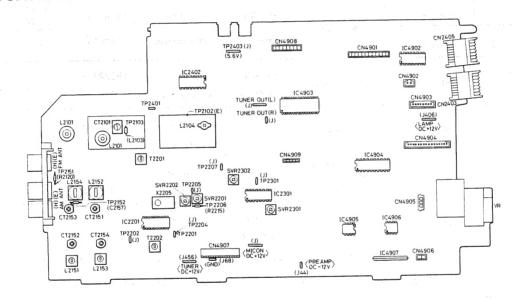
(3) LW BAND

Antenna: IRE Loop, Standard modulation: 400Hz 30%

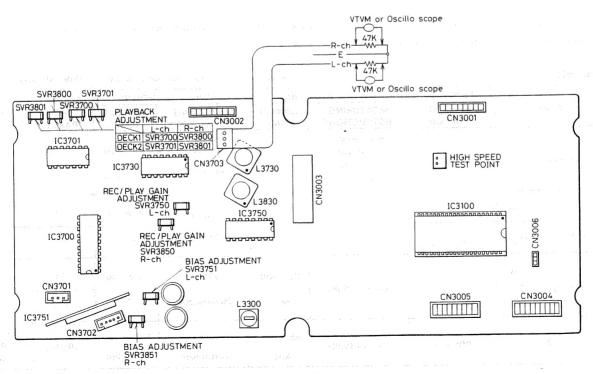
-	STEP ITEMS		FREQUENCY		INPUT CONDITIONS		OUTPUT CONDITIONS		
STEP			INDICATED POSITION	MEASURING INSTRUCTIONS	CONNECT- IONS	MEASURING INSTRUCTIONS	CONNECT- IONS	ING PARTS	STANDARDS
	Tuning	Low	144 kHz		garta (1944)	Digital	TP2401(H)	L2153	1.6 ± 0.03V
2	Cover	High	290 kHz	isan a at Baran a santa a	Destruction of the second seco	Voltmeter	TP2102(E)	CT2154	7.0 ± 0.05V
		102 1112	Low 162 kHz	IRE Loop	VTVM	Tuner Out	L2154	Max.	
3	Tracking	High	279 kHz	AM-SG(85dB)	Ant.	Oscilloscope	(L/R,E)	CT2153	

PARTS LOCATIONS

<TUNER>



<DECK>



ADJUSTMENT OF DECK & TORQUE -

Amplifier Adjustment

	ITEM	DECK	TEST TAPE	INPUT	DOLBY SW	ОИТРИТ	ADJUST POINT	REMARKS
1	Head Azimuth	DECK 1 DECK 2	VTT738	-	OFF	TAPE OUT	Azimuth Screw	Adjust so as 10kHz output become maximum.
2	Playback Level	DECK 1 DECK 2	TCC130 200nW/m	 -	OFF	TAPE OUT	SVR3700 SVR3800 SVR3701 SVR3801	Adjust so as TAPE OUT output become 0.54V.
3	Rec / Play	DECK 2	AC224	1kHz -15dB	OFF	TAPE OUT	SVR3750 SVR3850	Adjust SVR so as Monitor $o/p = R/P$ Level = $0dB \pm 1dB$.
4	Rec / Play Frequency	DECK 2	AC224	1kHz/10kHz - 30dB	ON	TAPE	SVR3751 SVR3851	R/P signal, set frequency characteristic 1kHz output to 0dB.SVR so as 10kHz output become ±1dB.

Note.

- 1. Perform BIAS alignment by SVR3751-3851 so as No.3 satisfy spec of all item. Perform output alignment by SVR3750-3850.
- 2. During alignment,measurement Beat cancel SW is at 1 condition fundamentally, cfm. R/P frequency characteristic, dolby effect also by 2 condition, when ship out set SW to 1 position.
- 3. Fix to MAIN VR the position that SP output playing VTT722 is about $2.83V-10dB.(2.83V \simeq 1W \text{ output})$

Tape Speed Adjustment

Connect the FREQUENCY COUNTER to TAPE OUT.

1.Insert the test tape(MTT-111N, etc.: 3000Hz) into the DECK 1. Note: Set the test tape near the tape end.

2. Press the FWD PLAY button.

3. Adjust SVR001 so that a frequency counter reading of 3000 $\pm\,5$ Hz is obtained.

4. Press the STOP button, and eject the test tape become normal speed dubbing.

6. Insert the tape (C-60 Blank tape) into the DECK 2.

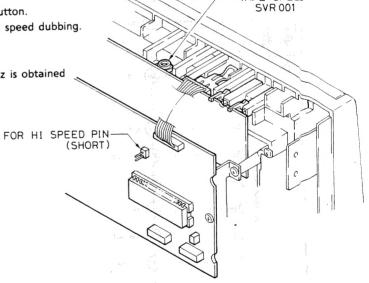
7. Press the REC button of DECK 2 and press the TAPE A/B button.

Press the FWD PLAY button. Both mechanism become normal speed dubbing.

8. Short the high speed test pin to the high speed position.

(The mechanism is high speed dubbing.)

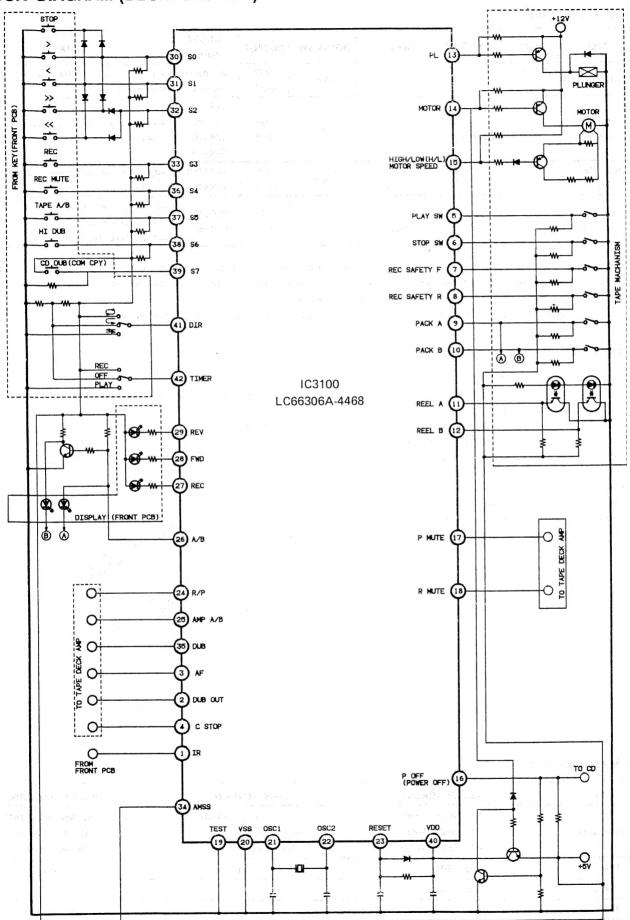
9. Confirm that a frequency counter reading of $2700 \sim 3300 Hz$ is obtained



TAPE SPEED

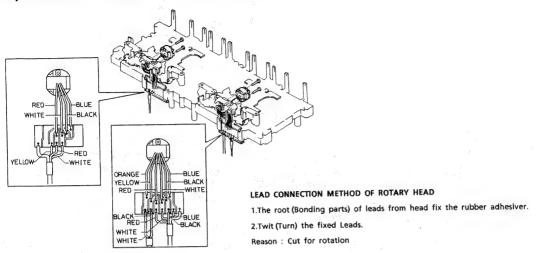
Torque Measurements

ITEM	TAKE-UP TORQUE	BACK TENSION	PULLEY TENSON	
Test cassette	PLAY :TW2111(FWD) PLAY :TW2121(REV) F.FWD / REW;TW2231	PLAY :TW2111(FWD) PLAY :TW2121(REV) REW:Torque Gage	Driving power ⊕ ssette: TW-2412(FIV D) TW-2422(RI V)	
PLAY	30 ~ 60gr.cm	2.0 ~ 5.0gr.cm	> 80g	
F.FWD	70 ~ 140gr.cm	-		
REW	70~140gr.cm	and the second s	and the second s	

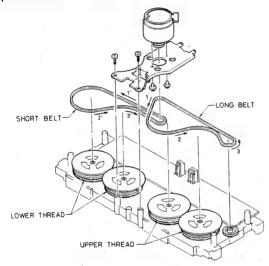


DISASSEMBLY (TAPE MECHANISM) -

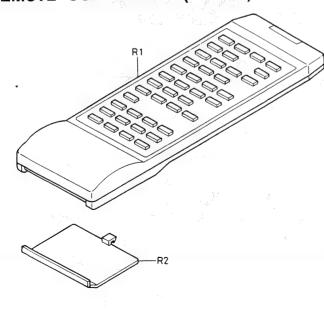
1. Replacement of Head



2. Replacement of Motor & Belt



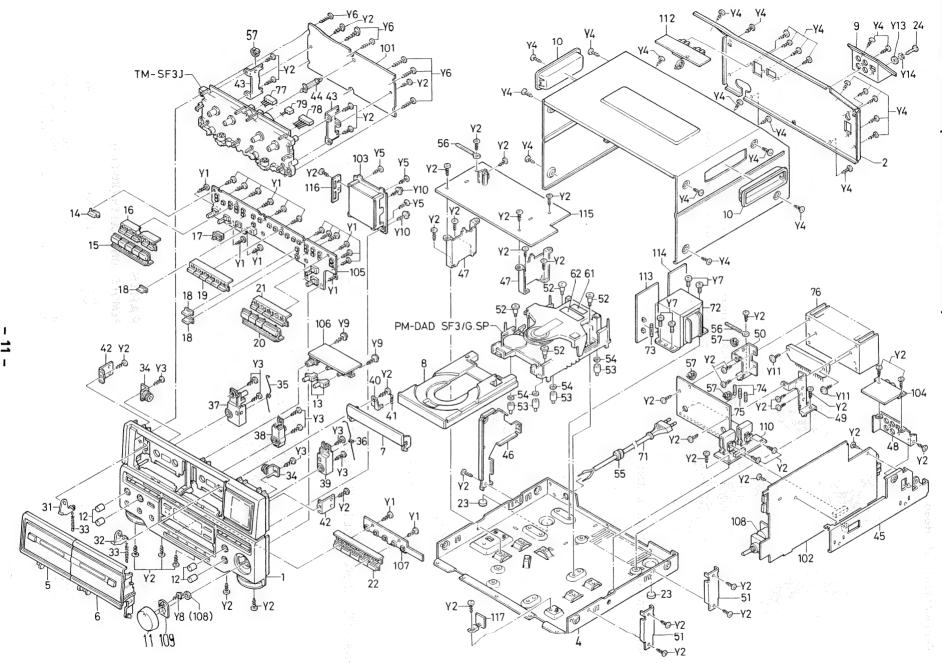
REMOTE CONTROLLER (RB-SF3)



PARTS LIST

REMOTE CONTROLLER (RB-SF3)

Ref. No.	Part No.	Descriptiα
R1 R2	614 226 1651 614 226 0905 614 226 0909	POLY COVER, REMOCON ASSY, REMOCON LID, BATTERY



PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol \bigwedge in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with \bigwedge , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CAUTION: Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.

PACKING & ACCESSORIES

PACKING	& ACCESSORIES	
Ref. No.	Part No.	Description
	614 223 2033	
	614 223 2026	INNER CARTON (W.GERMANY)
	614 221 8396	PAD, TOP
	614 221 8402	PAD, BOTTOM
	614 226 2306	POLY COVER, SET
	614 222 1365	SHEET, SET
	614 176 3231	
	614 176 1039	INNER POLYE COVER, SCREW
	614 223 2071	INSTRUCTION MANUAL (ITALY)
	614 223 2064	INSTRUCTION MANUAL
		(W.GERMANY)
	614 191 3681	LABEL, LASER CLASS, CABINET
	614 023 7344	ANT, FM
	614 208 7565	LOOP ANT, AM
	614 212 2341	MOUNT-E, AM ANT BRACKET
	411 083 9307	SCR WOOD RND 3.1X13,
		FOR AM ANT MTG.
	149 521 00	REMOCON RB-SF3
		A control of the cont

CABINET

CABINE	100	
Ref. No.	Part No.	Description
1	614 221 8037	ASSY, PANEL, FRONT
2	614 223 1623	PANEL, REAR (ITALY)
_	614 223 1616	PANEL, REAR (W.GERMANY)
3	614 221 8587	ASSY, CABINET
4	614 223 2200	CABINET, BOTTOM
5	614 221 8020	ASSY, LID, CASSETTE, DECK 1
6	614 221 8013	ASSY, LID, CASSETTE, DECK 2
7	614 221 8662	DOOR, CD
8	614 221 1410	TABLE, LOADING, CD TRAY
9	614 221 8655	COVER, PHONO VIDEO TERMINAL &
		EARTH
10	614 224 1264	HANDLE, CABINET SIDE
11	614 221 3193	KNOB, ROTARY, VOLUME
12	614 224 6078	KNOB, ROTARY,
	A STATE OF THE STATE OF	MID.HIGH.BALANCE.BASS
13	614 221 8709	BUTTON, SPEAKER DOLBY
14	614 221 8730	BUTTON, POWER
15	614 221 8600	ASSY, BUTTON, DECK
16	614 221 8754	BUTTON, COMP. BUB REC MUTE
		+ TUNING-
17	614 221 8693	KNOB, SLIDE, DIRECTION MODE
18	614 221 8747	BUTTON, TAPE A/B·BAND·
	A SECTION AS	FM MODE/TUNING
19	614 221 8761	BUTTON, PRE-SET (P1~P6)
20	614 221 8792	BUTTON, CD
21	614 221 8778	BUTTON, MEMO. COMP. REC.
		EDIT · STOP
22	614 221 8723	BUTTON, FUNCTION
		(CD.TAPE.TUNER.PHONO.VIDEO)
23	614 106 3393	STAND, BOTTOM
24	412 003 2804	SPECIAL SCREW, PHONO EARTH
	The state of the s	
	* 1 ₀ 1	
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CHA2212	and the first section of the section	
Ref. No.	Part No.	Description
31	614 221 8983	LEVER, DECK EJECT, DECK 1
32	614 221 8990	LEVER, DECK EJECT, DECK 2
33	614 208 9606	SPRING, TENS, DECK EJECT
34	614 069 0385	GEAR ASSY, CASSETTE DUMPER
35	614 221 9027	SPRING, WIRE, DECK 1
36	614 221 9034	SPRING, WIRE, DECK 2
37	614 221 8907	MOUNT-M, CASSETTE LID, LEFT
38	614 221 8914	MOUNT-M, CASSETTE LID, CENTER
39	614 221 8921	MOUNT-M, CASSETTE LID, RIGHT
40	614 221 8877	BRACKET-M, CD DOOR
41	614 221 9003	SPRING, TENS, CD DOOR
42	614 221 8884	BRACKET-M,
		CABINET-FRONT PANEL
43	614 221 8839	BRACKET-E, DECK PCB
44	614 129 5558	FIXER, DECK PCB
45	614 221 8945	REINFORCEMENT, RIGHT
46	614 221 8952	REINFORCEMENT, LEFT
47	614 211 6999	BRACKET-E, CD PCB
48	614 221 8846	BRACKET-E, TERMINAL
49	614 221 8853	BRACKET-E, HEAT SINK, RIGHT
50	614 221 8860	BRACKET-E, HEAT SINK, LEFT
51	614 211 7002	BRACKET-M,
		REINFORCEMENT-BOTTOM
52	412 004 5705	SPECIAL SCREW, CD MECHANISM
53	614 195 6978	RUBBER CUSHION,
	1.1	CD MECHANISM
54	411 087 8108	WASHER V 3X8X0.5,
• •		CD MECHANISM
55	614 129 1901	FIXER, AC CORD
56	614 130 0382	LUG. LEAD RETAINER
57	614 129 2496	FIXER, LEAD RETAINER
or	614 129 4971	FIXER, LEAD RETAINER
61	614 191 3698	LABEL, LASER
62	614 224 3695	LABEL, SAFETY, LASERNOTICE
32	614 125 2544	CUSHION, CD DOOR

FIXING PARTS

FIXING PA		
Ref. No.	Part No.	Description
Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8 Y9 Y10 Y11 Y12 Y13	411 021 3107 411 021 6405 411 021 3503 411 021 3701 411 021 4005 411 021 4906 411 021 4906 411 021 4209 411 020 9902 411 020 8905 411 020 9506 411 105 9704 411 008 0402	SCR S-TPG BIN 2.6X8 SCR S-TPG BIN 3X8 SCR S-TPG BIN 3X10 SCR S-TPG BIN 3X10 SCR S-TPG BIN 3X12 SCR S-TPG BIN 3X20 SCR S-TPG BIN 4X8 SCR S-TPG BIN 4X8 SCR S-TPG BRZ + FLG3×8 SCR S-TPG BRZ + FLG3×10 SCR S-TPG BRZ + FLG3×16 WASHER Z 3X10X1 WASHER OUT TW 3

PARTS LIST-

ELECTRICAL PARTS

Ref. No.	Pa	rt N	lo.	Description
71	△ 614	0.23	3308	POWER CORD
72	△ 614	221	7436	POWER TRANS
73	1 423	016	9902	FUSE 250V 0.8A, F4901
74	1 423	017	0106	FUSE 250V 1.6A, F4701 • 4801
75	₾ 423	016	7908	FUSE 250V 2.5A, F4601
76	614	222	1013	HEAT SINK, FOR IC4913
77	614	224	7839	ASSY, CONNECTOR-S,
				4P W/LEAD, DECK 1
78	614	224	7846	ASSY, CONNECTOR-S,
				5P W/LEAD, DECK 2
79	614	224	7853	ASSY, CONNECTOR-S,
				2P W/LEAD, DECK 2

DECK AMPLIFIER P.C.BOARD ASSY

Ref. No.	Part No.	Description
101	△ 614 221 6927	ASSY, PCB, DECK (ITALY)
	₾ 614 225 6220	ASSY, PCB, DECK (W.GERMANY)
	614 211 3592	HEAT SINK, FOR IC3751
L3300	614 221 8280	TRANS, OSC, BIAS
3700	614 028 4379	
3730	614 029 380	1
L3750	614 029 3142	
L3800	614 028 4379	
L3830	614 029 380	
L3850	614 029 314	
X3100	614 215 552	
or	614 215 556	
SVR3700	614 003 619	
	3	
SVR3701	614 003 619	
SVR3750		
SVR3751	614 003 621	
SVR3800	614 003 619	
SVR3801	61.4 003 619	
SVR3850	614 003 618	
SVR3851	614 003 621	
CN3001	614 224 999	
		8P W/LEAD, TO DECK 1
CN3002	614 224 999	
		8P W/LEAD, TO DECK 2
CN3003	614 035 603	
		TO TUNER & PRE-AMP.
CN3004	614 035 600	
CN3005	614 035 600	
CN3006	614 225 014	
	1	3P W/LEAD, TO CD
CN3007	614 016 408	
CN3301	614 017 253	
CN3701	614 017 255	
CN3702	614 017 256	
CN3703	614 035 594	9 SOCKET, 3P, TAPE OUT
RA3110	614 225 067	9 RESISTOR, 4.7K OHM X6
or	614 225 069	RESISTOR, 4.7K OHM X6
RA3111	614 225 068	6 RESISTOR, 4.7K OHM X7
or	614 225 070	9 RESISTOR, 4.7K OHM X7
IC3100	410 100 680	0 IC LC66306A-4486
IC3700	409 121 870	2 IC LA3246
IC3701	409 207 190	0 IC MLC4066B
or	409 003 950	
or	409 051 350	1 56
or	409 059 260	
IC3730	409 119 980	
IC3750	409 214 190	
IC3751	409 145 840	
Q3100	405 078 300	
or	405 001 040	
or	405 103 960	1
Q3140	1	
or or		
	405 103 970	
or Q3141	405 001 130	
		/ IIK /SUIKISTIK

Ref. No.	Part No.	Description
03141	405 020 7204	TR 2SC945A-K
Q3141 Q3142	405 078 3005	TR BA1L4M
or	405 001 0408	TR RN1204
or	405 103 9606	TR AA1L4M
Q3160	405 012 2002	TR 2SC1815-GR
or	405 020 7204 405 078 2107	TR 2SC945A-K TR BN1L4M
Q3161 or	405 078 2107	TR AN1L4M
or	405 001 1306	TR RN2204
Q3191	405 078 2701	TR BN1L3Z
or	405 103 9507	TR AN1L3Z
or	405 084 0104	TR RN2210
Q3192 or	405 078 3005 405 001 0408	TR BA1L4M TR RN1204
or	405 103 9606	TR AA1L4M
Q3193	△ 405 015 1606	TR 2SC2655-Y
Q3194	405 078 2107	TR BN1L4M
or	405 103 9705	TR AN1L4M
or	405 001 1306	TR RN2204 TR 2SC1815-GR
Q3300 or	405 020 7204	TR 2SC945A-K
Q3301	405 011 1907	TR 2SC1627-Y
Q3302	405 001 7001	TR 2SA1015-GR
or	405 005 2002	TR 2SA733-P
Q3303	405 012 2002 405 020 7204	TR 2SC1815-GR TR 2SC945A-K
or Q3730	405 020 7204	TR 2SD1468-S
or	405 033 6805	TR 2SD1468S-S
Q3830	405 022 5604	TR 2SD1468-S
or	405 033 6805	TR 2SD1468S-S
D3100	407 007 9904 407 012 4406	DIODE GMA01 DIODE 1SS133
or D3110	407 012 4400	DIODE 133133
or	407 013 7109	DIODE 1S2473
D3111	407 005 4505	DIODE DS442X
or	407 013 7109	DIODE 1S2473
D3112	407 007 9904	DIODE GMA01 DIODE 1SS133
or D3113	407 012 4400	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D3114	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D3140	407 007 9904 407 012 4406	DIODE GMA01 DIODE 1SS133
or D3141	407 012 4400	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D3142	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D3143	407 007 9904	DIODE GMA01 DIODE 1SS133
or D3190	407 051 6904	ZENER DIODE GZS5.6Y
or	407 053 6803	ZENER DIODE MTZ5.6C
D3750	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
C3303 C3304	403 058 2406 403 058 1102	POLYESTER 0.015U J 50V POLYESTER 1500P K 50V
R3194	A 402 004 4303	FUSIBLE RES 10 J- 1/4W

TUNER & PRE-AMPLIFIER P.C.BOARD ASSY

Ref. No.	Part No.	Description
102	⚠ 614 223 1364 614 211 3004	ASSY, PCB, TUNER & PREAMP SOCKET, 3P, TO POWER 2 (CN4905)
	614 224 4517	VR, ROTARY, 100K OHM (1), VR4701-4801
	614 116 5349 614 117 1029	SHIELD PLATE, DIPPING SHIELD PLATE, PATTERN IDE
	614 117 1036 614 051 9785	SHIELD PLATE, SYMBOL SDE LUG, EARTH
JK2101	614 210 4675 614 210 2688	FILTER, PAIR (X2204·2205) TERMINAL, EXT ANT

PARTS LIST-

Ref.	Part No.	Description	Ref. No.	Part No.	Description	n .
No.	Ture Ito.			405 020 7204	TR 2SC945A-K	
CT2101	614 007 3683	TRIMMER, 8PF (BK)	Q2157	405 020 7204	TR 2SC1740S-S	
CT2151	614 007 6356	TRIMMER, 11PF (WH)	Q2158	405 011 8003	TR 2SC1815-GR	
CT2152	614 007 6356	TRIMMER, 11PF (WH)	or	405 012 2002	TR 2SC945A-K	
CT2153	614 007 6332	TRIMMER, 30PF (GR)	or	405 018 7902	TR 2SC380TM-0	
CT2154	614 007 6332	TRIMMER, 30PF (GR)	Q2201	405 010 7502	TR 2SC1740S-S	
T2101	614 028 6922	FILTER, BPF, 88~108MHZ, FM	Q2202	405 011 0003	TR 2SC1815-GR	
T2201	614 030 3476	I.F.T, 10.7MHZ, FM	or	405 012 2002	TR 2SC945A-K	
T2202	614 030 4114	I.F.T, 10.7MHZ, FM	or	405 011 8609	TR 2SC1740S-S	
T2204	614 029 3906	MX COIL, LPF	Q2301	405 012 2002	TR 2SC1815-GR	
T2301	614 027 7845	CHOKE, TRAP	or	405 020 7204	TR 2SC945A-K	
T2302	614 027 7845	CHOKE, TRAP	or	405 011 8609	TR 2SC1740S-S	
L2101	614 034 9870	VHF COIL, FM	Q2302	405 012 2002	TR 2SC1815-GR	
L2101	614 034 9887	VHF COIL, FM	or	405 012 2002	TR 2SC945A-K	
L2103	614 028 4058	FILTER, 2.2UH, FM	or	405 016 2206	TR 2SC2878-A	
L2104	614 035 0036	VHF COIL, FM	Q2303	405 016 2305	TR 2SC2878-B	
L2105	614 034 8286	VHF COIL, FM	or	405 016 2305	TR 2SC2878-A	
L2131	614 034 7135	VHF COIL, AM	Q2304	405 016 2305	TR 2SC2878-B	
L2131	614 034 7135	VHF COIL, AM	or		TR 2SA1015-GR	
	614 033 8904	O.S.C COIL, MW	Q2351	405 001 7001	TR 2SC1740S-S	
L2151	614 032 8066	ANT COIL, MW	Q2352	405 011 8609		
L2152	614 034 1003	O.S.C COIL, LW	or	405 012 2002	TR 2SC1815-GR	
L2153	614 197 3975	ANT COIL, LW	or	405 020 7204	TR 2SC945A-K	
L2154	614 028 4379	FILTER, 1000UH, AM	Q2354	405 011 8609	TR 2SC1740S-S	
L2155	614 030 5128	I.F FILTER, FM	or	405 012 2002	TR 2SC1815-GR	
X2201	614 030 5128	I.F FILTER, FM	or	405 020 7204	TR 2SC945A-K	
X2202	614 030 5128	LE CUITED EM	Q2355	405 001 7001	TR 2SA1015-GR	
X2203	614 030 7443	I.F FILTER, AM	Q2356	405 001 7001	TR 2SA1015-GR	
X2204	614 030 7443	FILTER, AM	Q2357	405 011 8609	TR 2SC1740S-S	
X2205		SEMI-FIXED V.R, 20K OHM (B)	or	405 012 2002	TR 2SC1815-GR	
SVR2201	614 204 1918	SEMI-FIXED V.R., 10K OHM (B)	or	405 020 7204	TR 2SC945A-K	
SVR2202	614 204 1901	SEMI-FIXED V.R., 1K OHM (B)	Q2358	405 001 7001	TR 2SA1015-GR	
SVR2301	614 204 1864	SEMI-FIXED V.R., 10K OHM (B)	Q2359	405 011 8609	TR 2SC1740S-S	
SVR2302	614 204 1901	SOCKET, 8P, TO FRONT	or	405 012 2002	TR 2SC1815-GR	
CN2403	614 208 2355	SOCKET, 8P, TO FRONT	or	405 020 7204	TR 2SC945A-K	
CN2405	614 208 2355	SOCKET, 12P, TO DECK	Q2360	405 001 7001	TR 2SA1015-GR	
CN4901	614 035 5017		Q2401	405 011 8609	TR 2SC1740S-S	
CN4902	614 017 2539	PLUG, 2P, TO VR LED PLUG, 8P, TO FUNCTION SW.	or	405 012 2002	TR 2SC1815-GR	
CN4903	614 017 2591		or	405 020 7204	TR 2SC945A-K	
CN4904	614 017 2669	PLUG, 15P, TO FRONT	Q2402	405 078 4903	TR 2SC2634-R	
CN4905	614 020 1222	SOCKET, 3P, TO POWER 2	02403	405 078 4903	TR 2SC2634-R	
CN4906	614 035 4911	SOCKET, 2P, TO VR MOTOR	02404	405 011 8609	TR 2SC1740S-S	
CN4907	614 224 9215	SOCKET, 13P, TO POWER 1	or	405 012 2002	TR 2SC1815-GR	
CN4908	614 035 4973	SOCKET, 8P, TO RCA SOCKET	or	405 020 7204	TR 2SC945A-K	
CN4909	614 225 0181	ASSY, CONNECTOR-S,	02405	405 011 8609	TR 2SC1740S-S	
	A 17 17 17 17 17 17 17 17 17 17 17 17 17	5P W/LEAD, TO CD	or	405 012 2002	TR 2SC1815-GR	
IC2201	409 016 2204		or	405 020 7204	TR 2SC945A-K	
IC2301	409 016 9500		04701	405 011 8609	TR 2SC1740S-S	
IC2402	409 154 0209		or	405 012 2002	TR 2SC1815-GR	
IC4902	409 053 1703	IC TC9174P	or	405 020 7204		
IC4903	409 022 3608	IC LC7818	04702	405 011 8609	TR 2SC1740S-S	
IC4904	409 160 6608	IC TA7764P	or	405 012 2002	TR 2SC1815-GR	
IC4905	409 018 4305	IC LA6458D	or	405 020 7204	TR 2SC945A-K	
IC4906	409 018 4305	IC LA6458D	04703	405 011 8609		
1C4907	409 114 4803	IC LB1641	or	405 012 2002	TR 2SC1815-GR	
Q2101	405 092 5702	TR 2SK606-Q	or	405 020 7204	TR 2SC945A-K	
or	405 093 7606	TR 2SK606-R	Q4801	405 011 8609	TR 2SC1740S-S	
Q2102	405 012 5904	TR 2SC1923-Y	0r	405 012 2002		
Q2103	405 012 5904	TR 2SC1923-Y	or	405 020 7204		
Q2104	405 012 5904		Q4802	405 011 8609	TR 2SC1740S-S	
Q2105	405 092 5702	TR 2SK606-Q	1 1 -	405 012 2002		
or	405 093 760	5 TR 2SK606-R	or	405 020 7204		
Q2151	405 016 220	5 TR 2SC2878-A	01803	405 011 860		
or	405 016 230	5 TR 2SC2878-B	Q4803	405 012 200		
Q2152	405 016 220	6 TR 2SC2878-A	or	405 020 720		
or	405 016 230	5 TR 2SC2878-B	or 04001	405 001 700		
Q2153	405 016 220	6 TR 2SC2878-A	Q4901	405 005 200		
or	405 016 230	5 TR 2SC2878-B	or	405 003 200		
Q2154	405 016 220	6 TR 2SC2878-A	Q4902	405 005 200	D	
or	405 016 230	5 TR 2SC2878-B	or			
Q2155	405 016 220	6 TR 2SC2878-A	Q4903	405 011 860 405 012 200		
or	405 016 230	5 TR 2SC2878-B	or	405 012 200		
Q2156	405 078 540	5 TR 2SK301-R	or	405 020 720	9 TR 2SC1740S-S	
Q2157	405 011 860	9 TR 2SC1740S-S	Q4904	405 011 880		
or	405 012 200	2 TR 2SC1815-GR	or	405 012 200	4 TR 2SC945A-K	
		1.	or	703 020 720		

Q4905 405 001 7001 TR 2SA1015-GR TR 2SA733-P Q4906 405 012 2002 TR 2SA733-P Q4906 405 012 2002 TR 2SC1740S-S or 405 020 7204 TR 2SC1815-GR or 405 020 7204 TR 2SC4TOR DI SVC211-B-AL D2101 407 105 0100 VARACTOR DI SVC211-B-AL D2103 407 105 0100 VARACTOR DI SVC211-B-AL D2104 407 012 5809 DIODE 1SS176 or 407 012 5809 DIODE 1SS176 D2152 407 012 5809 DIODE 1SS176 or 407 012 4406 DIODE 1SS133 or 407 012 4406	Ref. No.	Part No.	Description
Q4906 405 011 8609 TR 2SC1740S−S or 405 012 2002 TR 2SC1815−GR or 405 020 7204 TR 2SC1815−GR D2101 407 105 0100 VARACTOR DI SVC211−B−AL D2103 407 105 0100 VARACTOR DI SVC211−B−AL D2104 407 012 5809 DIODE 1SS176 or 407 091 5004 VARACTOR DI SVC211−B−AL D2151 407 091 5004 VARACTOR DI SVC211−B−AL D2152 407 091 5004 VARACTOR DI SVC211−B−AL D2152 407 091 5004 VARACTOR DI SVC211−B−AL D2152 407 091 5004 VARACTOR DI SVC211−B−AL D2201 407 091 5004 VARACTOR DI SVC211−B−AL D2201 407 012 5809 DIODE 1SS133 D2301 407 012 5809 DIODE 1SS133 D2403 407	Q4905	405 001 7001	TR 2SA1015-GR
or	or	405 005 2002	TR 2SA733-P
or 405 020 7204 does not consider the post of the	Q4906	405 011 8609	TR 2SC1740S-S
D2101 407 105 0100 VARACTOR DI SVC211-B-AL D2103 407 105 0100 VARACTOR DI SVC211-B-AL D2104 407 012 5809 DIODE 1SS176 Or 407 012 4406 DIODE 1SS133 D2151 407 091 5004 VARACTOR DI SVC211-B-AL D2152 407 091 5004 VARACTOR DI SVC211-B-AL D2102 407 012 5809 DIODE 1SS133 D2201 407 012 5809 DIODE 1SS133 D2302 407 012 5809 DIODE 1SS133 D2403 407 012 5809 DIODE 1SS133 DIODE 1SS133 D24	or	405 012 2002	TR 2SC1815-GR
D2102 407 105 0100 VARACTOR DI SVC211-B-AL D2103 407 105 0100 VARACTOR DI SVC211-B-AL D2104 407 012 5809 DIODE 1SS176 D015 407 012 4406 DIODE 1SS133 D2151 407 091 5004 VARACTOR DI SVC321SPA-C-2 D2201 407 012 5809 VARACTOR DI SVC321SPA-C-2 D02301 407 012 4406 DIODE 1SS173 D2302 407 012 4406 DIODE 1SS133 D2302 407 012 4406 DIODE 1SS133 D2401 407 012 5809 DIODE 1SS176 D0 DIODE 1SS176 DIODE 1SS133 D2403 407 012 5809 DIODE 1SS133 D10DE 1SS176 DIODE 1SS133 D2403 407 012 5809 DIODE 1SS133 D10DE 1SS176 DIODE 1SS133 D2404 407 012 5809 DIODE 1SS133 D2405 407 012 5809 DIODE 1SS133 D10DE 1SS133 DIODE 1SS133 D10DE 1SS133 DIODE 1SS133 D10DE 1SS133 DIODE 1SS133 D10DE 1SS133 DIODE 1SS133	or	405 020 7204	TR 2SC945A-K
D2103	D2101	407 105 0100	VARACTOR DI SVC211-B-AL
D2104	D2102	407 105 0100	VARACTOR DI SVC211-B-AL
or 407 012 4406 DIODE ISS133 D2151 407 091 5004 VARACTOR DI SVC321SPA-C-2 D2201 407 012 5809 DIODE ISS176 or 407 012 4406 DIODE ISS133 D2301 407 012 5809 DIODE ISS133 or 407 012 5809 DIODE ISS133 D2302 407 012 5809 DIODE ISS133 or 407 012 5809 DIODE ISS133 D2401 407 012 5809 DIODE ISS133 or 407 012 5809 DIODE ISS133 or 407 012 5809 DIODE ISS133 or 407 012 5809 DIODE ISS133 D2403 407 012 5809 DIODE ISS133 D2404 407 012 5809 DIODE ISS133 D2405 407 012 5809 DIODE ISS133 D10DE ISS133 DIODE ISS133 D4901 407 012 5809 DIODE ISS133 D4902 407 053 7107 DIODE GMA01 D4903 407 007 9904 DIODE GMA01 D4906 407 053 5806 DIODE GMA01 D4906	D2103	407 105 0100	VARACTOR DI SVC211-B-AL
D2151	D2104	407 012 5809	DIODE 1SS176
D2152 407 091 5004 VARACTOR DI SVC321SPA-C-2 D2201 407 012 5809 DIODE 1SS176 D2301 407 012 5809 DIODE 1SS133 D2302 407 012 4406 DIODE 1SS133 D2401 407 012 5809 DIODE 1SS133 D2403 407 012 5809 DIODE 1SS133 D2404 407 012 5809 DIODE 1SS133 D2404 407 012 5809 DIODE 1SS133 D2405 407 012 5809 DIODE 1SS133 D2405 407 012 5809 DIODE 1SS133 D00E 1SS176 DIODE 1SS133 D10DE 1SS176 DIODE 1SS133 D10DE 1SS133 DIODE 1SS133 D10DE 1SS176 DIODE 1SS133 D10DE 1SS133 DIODE 1SS133 D10DE 1SS133 DIODE 1SS133 D10DE 1SS133 DIODE 1SS133 D10DE 1SS134 DIODE 1SS134	or	407 012 4406	DIODE 1SS133
D2201	D2151	407 091 5004	VARACTOR DI SVC321SPA-C-2
or	D2152	407 091 5004	VARACTOR DI SVC321SPA-C-2
D2301	D2201	407 012 5809	DIODE 1SS176
or	or	407 012 4406	DIODE 1SS133
D2302	D2301	407 012 5809	DIODE 1SS176
or 407 012 4406 DIODE 1SS133 D2401 407 012 5809 DIODE 1SS133 D2403 407 012 4406 DIODE 1SS133 D2404 407 012 5809 DIODE 1SS133 D2405 407 012 4406 DIODE 1SS133 D2405 407 012 5809 DIODE 1SS133 D2405 407 012 5809 DIODE 1SS133 D4901 407 012 4406 DIODE 1SS133 D4901 407 007 9904 DIODE 1SS133 D4902 407 053 7107 DEORE 1SS133 D4903 407 007 9904 DIODE GMA01 D4904 407 053 7107 DEORE GMA01 D4906 407 005 4505 DIODE GMA01 D4907 407 007 9904 DIODE GMA01 D4909 407 007 9904 DIODE GMA01 C2306 403 080 5000 DIODE GMA01 C2407 403 106 1603 POLYPRO 1000P J 100V C4710 403 057 1202 POLYESTER 4700P M 50V C4713 403 062 6902 POLYESTER 0.01U M 50V C4810 403 062 6902 POLYESTER 0.05	or	407 012 4406	DIODE 1SS133
D2401	D2302	407 012 5809	
or 407 012 4406 DIODE 1SS133 D2403 407 012 5809 DIODE 1SS176 or 407 012 4406 DIODE 1SS133 D2404 407 012 5809 DIODE 1SS133 or 407 012 5809 DIODE 1SS133 D2405 407 012 5809 DIODE 1SS133 D4901 407 012 4406 DIODE 1SS133 D4902 407 053 7107 ZENER DIODE MTZ6.2B D4903 407 007 9904 DIODE GMA01 D4904 407 053 5806 ZENER DIODE MTZ4.7B D4906 407 005 4505 DIODE DS442X D4907 407 007 9904 DIODE GMA01 D4909 407 007 9904 DIODE GMA01 D4909 407 007 9904 DIODE GMA01 C2306 403 080 5000 POLYPRO 1000P J 100V C2407 403 106 1603 NP-ELECT 1U Q 50V C4710 403 057 1202 POLYESTER 0.033U M 50V C4711 403 060 8908 POLYESTER 0.033U M 50V C4809 403 061 9003 POLYESTER 0.033U M 50V C4811 403 062 6902	or	407 012 4406	
D2403	D2401	407 012 5809	
or	or		
D2404	D2403		
or 407 012 4406 DIODE 1SS133 D2405 407 012 5809 DIODE 1SS176 or 407 012 4406 DIODE 1SS133 D4901 407 007 9904 DIODE GMA01 D4902 407 053 7107 ZENER DIODE MTZ6.2B D4903 407 007 9904 DIODE GMA01 D4904 407 053 5806 ZENER DIODE MTZ4.7B D4906 407 005 4505 DIODE DS442X D4907 407 007 9904 DIODE GMA01 D4908 407 007 9904 DIODE DS442X D4909 407 007 9904 DIODE GMA01 C2306 403 080 5000 POLYPRO 1000P J 100V C2407 403 106 1603 POLYPRO 1000P J 100V C4710 403 057 1202 POLYESTER 4700P M 50V C4711 403 062 6902 POLYESTER 0.01U M 50V C4810 403 057 1202 POLYESTER 0.056U K 50V C4811 403 060 8908 POLYESTER 0.033U M 50V C4928 403 085 6804 POLYESTER 0.056U K 50V C4995 403 085 6804 NP-ELECT 47U M 16V C4995	1		
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or 407 012 4406 DIODE 1SS133 D4901 407 007 9904 DIODE GMA01 D4903 407 053 7107 ZENER DIODE MTZ6.2B D4904 407 053 5806 ZENER DIODE MTZ4.7B D4906 407 005 4505 DIODE DS442X D4907 407 007 9904 DIODE DS442X D4908 407 007 9904 DIODE GMA01 D4909 407 007 9904 DIODE GMA01 C2306 403 080 5000 POLYPRO 1000P J 100V C2407 403 106 1603 NP-ELECT 1U Q 50V C4710 403 057 1202 POLYESTER 4700P M 50V C4711 403 060 8908 POLYESTER 0.033U M 50V C4809 403 061 9003 POLYESTER 0.056U K 50V C4810 403 057 1202 POLYESTER 0.033U M 50V C4811 403 060 8908 POLYESTER 0.033U M 50V C4813 403 085 6804 POLYESTER 0.056U K 50V C4928 403 085 6804 POLYESTER 0.056U K 50V C4995 403 085 6804 NP-ELECT 47U M 16V C4995 403 085 6804 NP-ELECT 47U M 16V	1		
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D4902 407 053 7107 ZENER DIODE MTZ6.2B D4903 407 007 9904 DIODE GMA01 D4904 407 053 5806 ZENER DIODE MTZ4.7B D4907 407 005 4505 DIODE DS442X D4908 407 007 9904 DIODE GMA01 D4909 407 007 9904 DIODE GMA01 C2306 403 080 5000 POLYPRO 1000P J 100V C2407 403 106 1603 NP-ELECT 1U Q 50V C4709 403 061 9003 POLYESTER 4700P M 50V C4711 403 060 8908 POLYESTER 0.033U M 50V C4713 403 062 6902 POLYESTER 0.056U K 50V C4809 403 061 9003 POLYESTER 0.033U M 50V C4810 403 057 1202 POLYESTER 0.033U M 50V C4811 403 060 8908 POLYESTER 0.033U M 50V C4828 403 085 6804 POLYESTER 0.056U K 50V C4928 403 085 6804 NP-ELECT 47U M 16V C4995 403 085 6804 NP-ELECT 47U M 16V C4995 401 018 1209 CARBON 33 JB 1/4W, FLAME PLOOF FUSIBLE RES 10 J- 1/4W			
D4903 407 007 9904 DIODE GMA01 D4904 407 053 5806 ZENER DIODE MTZ4.7B D4907 407 005 4505 DIODE DS442X D4908 407 007 9904 DIODE GMA01 D4909 407 007 9904 DIODE GMA01 C2306 403 080 5000 POLYPRO 1000P J 100V C2407 403 106 1603 NP-ELECT 1U Q 50V C4710 403 057 1202 POLYESTER 4700P M 50V C4711 403 062 6902 POLYESTER 0.01U M 50V C4713 403 062 6902 POLYESTER 0.056U K 50V C4809 403 061 9003 POLYESTER 0.033U M 50V C4810 403 057 1202 POLYESTER 0.033U M 50V C4811 403 060 8908 POLYESTER 0.033U M 50V C4928 403 085 6804 POLYESTER 0.056U K 50V C4995 403 085 6804 NP-ELECT 47U M 16V R2380 Å 401 018 1209 CARBON 33 JB 1/4W, FLAME PLOOF FUSIBLE RES 10 J - 1/4W			
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D4908 407 007 9904 DIODE GMA01 D4909 407 007 9904 DIODE GMA01 C2306 403 0.80 5000 POLYPRO 1000P J 100V C2407 403 106 1603 NP-ELECT 1U Q 50V C4709 403 061 9003 POLYESTER 4700P M 50V C4710 403 057 1202 POLYESTER 0.01U M 50V C4711 403 060 8908 POLYESTER 0.033U M 50V C4809 403 061 9003 POLYESTER 0.056U K 50V C4810 403 057 1202 POLYESTER 0.033U M 50V C4811 403 060 8908 POLYESTER 0.033U M 50V C4928 403 085 6804 POLYESTER 0.056U K 50V C4995 403 085 6804 NP-ELECT 47U M 16V C4995 403 085 6804 NP-ELECT 47U M 16V C4926 △ 401 018 1209 CARBON 33 JB 1/4W, F			
D4909			
C2306	1		
C2407 C4709 C4709 C4710 C4710 C4711 C403 C4711 C403 C4711 C403 C4711 C403 C4713 C403 C4713 C403 C4713 C403 C404 C404 C404 C404 C404 C404 C40			
C4709 403 061 9003 POLYESTER 4700P M 50V C4710 403 057 1202 POLYESTER 0.01U M 50V C4711 403 060 8908 POLYESTER 0.033U M 50V C4713 403 061 9003 POLYESTER 0.056U K 50V C4809 403 061 9003 POLYESTER 0.01U M 50V C4810 403 060 8908 POLYESTER 0.01U M 50V C4811 403 060 8908 POLYESTER 0.01U M 50V C4813 403 062 6902 POLYESTER 0.033U M 50V C4928 403 085 6804 NP-ELECT 47U M 16V C4995 403 085 6804 NP-ELECT 47U M 16V R2380 A 401 018 1209 CARBON 33 JB 1/4W, FLAME PLOOF FUSIBLE RES 10 J- 1/4W			
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C4809 403 061 9003 POLYESTER 4700P M 50V C4810 403 057 1202 POLYESTER 0.01U M 50V C4811 403 060 8908 POLYESTER 0.033U M 50V C4813 403 085 6804 POLYESTER 0.056U K 50V C4928 403 085 6804 NP-ELECT 47U M 16V C4995 403 085 6804 NP-ELECT 47U M 16V R2380 401 018 1209 CARBON 33 JB 1/4W, FLAME PLOOF FUSIBLE RES 10 J- 1/4W	C4711	403 060 8908	POLYESTER 0.033U M 50V
C4810	C4713	403 062 6902	POLYESTER 0.056U K 50V
C4811	C4809	403 061 9003	POLYESTER 4700P M 50V
C4813	C4810	403 057 1202	POLYESTER 0.01U M 50V
C4928	C4811	403 060 8908	
C4995	C4813		
R2380	C4928	403 085 6804	
R4926			
R4926	R2380	∆ 401 018 1209	
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LCD P.C.BOARD ASSY

LCD P.C.DUARD ASST		The state of the s
Ref. No.	Part No.	Description
103	△ 614 223 1371	ASSY, PCB, LCD
	614 221 9515	LCD=LIQUID CRYSTAL DISPLAY
	614 221 8891	MOUNT-E, LCD
	614 221 8808	REFLECTION, LCD
	614 221 8969	SHEET, MIRROR FILM, LCD
	614 221 8976	SHEET, MAT, LCD
	614 226 5369	CUSHION, LCD
X2401	614 008 0063	CRYSTAL, 7.2MHZ
or	614 204 0317	CRYSTAL, 7.2MHZ
CN2401	614 020 6548	SOCKET, 2P, TO LAMP
CN2407	614 221 9096	SOCKET, 9P; TO FRONT
CN2410	614 225 0266	ASSY, CONNECTOR-S,
	No. 1 Aug. 1	12P W/LEAD, TO CD
CN2411	614 225 0297	ASSY, CONNECTOR-S,
	第 章 14	14P W/LEAD, TO CD
P2404	614 208 2263	PLUG, 8P, TUNER & PRE-AMP.
P2406	614 208 2263	PLUG, 8P, TUNER & PRE-AMP.
IC2401	410 064 8407	IC TC9306F-045 BS
	1	

Ref. No.	- Part No.	Description	12
Q2406	405 001 7001	TR 2SA1015-GR	
D2402	407 012 5809	DIODE 1SS176	
or	407 012 4406	DIODE 1SS133	
D2408	407 012 5809	DIODE 1SS176	
or	407 012 4406	DIODE 1SS133	
D2409	407 012 5809	DIODE 1SS176	
or	407:012:4406	DIODE 1SS133	
D2410	407/012/5809	DIODE 1SS176	
or	407 012 4406	DIODE 1SS133	
D2411	407 012 5809	DIODE 1SS176	
or	407 012 4406	DIODE 1SS133	
D2412	407 012 5809	DIODE 1SS176	
or	407 012 4406	DIODE 1SS133	
D2413	407 012 5809	DIODE 1SS176	
or	407 012 4406	DIODE 1SS133	
D2414	407 012 5809	DIODE 1SS176	
or	407 012 4406	DIODE 1SS133	
D2415	407 012 5809	DIODE 1SS176	
or	407 012 4406		
D2416	407 012 5809	DIODE 1SS176	
or	407 012 4406	1	
C2401	403 019 0403		
C2402	403 019 0403	CERAMIC 24P J 50V, NPO	
C2410	403 196 9602	DL-ELECT 0.047F Z 5.5V	
	Programme 1		

PHONO-VIDEO TERMINAL P.C.BOARD ASSY

Ref. No.	Part No.		Description
104	△ 614 223 1	388	ASSY, PCB, TERMINAL (RCA)
	614 221 3	360	SOCKET, 4P (RCA), PHONO VIDEO
SW3900	614 012 4	316	SWITCH, BEAT CANCEL
or	614 023 8	297	SWITCH, BEAT CANCEL
CN4910	614 035 4	973	SOCKET, 8P,
			TO TUNER & PRE-AMP.
IC4901	409 018 4	909	IC LA6458S
	Vi,		e e e e e e e e e e e e e e e e e e e

FRONT P.C.BOARD ASSY

Ref. No. Part No. Description	PRONT P.	C.DUAKD ASST	
\$1701 614 220 5631 SOCKET, 3P W/LEAD, TO POWER 2 (CN4930) SWITCH, TACT, CD, SKIP·SEARCH (REVERSE) SWITCH, TACT, CD, PLAY·PAUSE SWITCH, TACT, CD, PLAY·PAUSE SWITCH, TACT, CD, COMP RE		Part No.	Description
S1701 614 220 5631 SWITCH, TACT, CD, PLAY-PAUSE ST703 614 220 5631 SWITCH, TACT, CD, COMPREC SWITCH, TACT, CD, STOP SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, SWITCH, TACT, DECK	105	₾ 614 221 6965	ASSY, PCB, FRONT
S1701 614 220 5631 SWITCH, TACT, CD, SKIP·SEARCH (REVERSE) SWITCH, TACT, CD, PLAY·PAUSE SWITCH, TACT, CD, COMPREC SWITCH, TACT, CD, STOP SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P6 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, TACT, DECK, FORWARD PLAY SWITCH,		614 224 4456	SOCKET, 3P W/LEAD,
SI702 614 220 5631 SWITCH, TACT, CD, PLAY → AUSE SWITCH, TACT, CD, COMPREC SWITCH, TACT, CD, SECTION SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, SKIP·SEARCH (FORWARD) SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, SWITC		# N	TO POWER 2 (CN4930)
S1702 614 220 5631 SWITCH, TACT, CD, PLAY PAUSE SWITCH, TACT, CD, COMP RE C SWITCH, TACT, CD, OPEN/LOSE SWITCH, TACT, CD, OPEN/LOSE SWITCH, TACT, CD, OPEN/LOSE SWITCH, TACT, CD, DELOT SWITCH, TACT, CD, MEMO SWITCH, TACT, CD, MEMO SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, SKIP SEARCH (FORWARD) SWITCH, TACT, CD, SKIP SEARCH (FORWARD) SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, TACT, TUNING SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, SWITC	S1701	614 220 5631	SWITCH, TACT, CD,
S1703 614 220 5631 SWITCH, TACT, CD, COMPREC SWITCH, TACT, CD, OPEN/CLOSE SWITCH, TACT, CD, EJECT SWITCH, TACT, CD, EJECT SWITCH, TACT, CD, EJECT SWITCH, TACT, CD, EJECT SWITCH, TACT, CD, MEMO SWITCH, TACT, CD, STOP SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK,		44.	
S1704 S1705 S1706 S14 S20 S631 SWITCH, TACT, CD, OPEN/CLOSE SWITCH, TACT, CD, EJECT SWITCH, TACT, CD, MEMO SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, SWITCH, TACT, CD, SWITCH, TACT, CD, SWITCH, TACT, CD, SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, SWITCH	S1702	614 220 5631	
S1705 614 220 5631 SWITCH, TACT, CD, EJECT SWITCH, TACT, CD, MEMO SWITCH, TACT, CD, MEMO SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, STOP SWITCH, TACT, CD, SKIP SEARCH (FORWARD) SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, T	S1703	614 220 5631	
\$1706 614 220 5631 SWITCH, TACT, CD, MEMO SWITCH, TACT, CD, STOP SWITCH, TACT, CD, SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, TACT, DWER SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, SWITCH, TACT	S1704	614 220 5631	
\$1707	S1705	614 220 5631	101111011, 11101, 00, 00
S1708	S1706	614 220 5631	SWITCH, TACT, CD, MEMO
S2001 614 220 5631 SWITCH, TACT, PRESET, P1 S2002 614 220 5631 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING SWITCH, TACT, TUNING SWITCH, TACT, POWER SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, SWITCH, TACT	S1707		
S2001 614 220 5631 SWITCH, TACT, PRESET, P1 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P6 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, SWITCH, TACT	S1708	614 220 5631	
S2002 614 220 5631 SWITCH, TACT, PRESET, P2 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P6 SWITCH, TACT, TUNING + S2008 614 220 5631 SWITCH, TACT, TUNING − SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, S		Dati Cons	
S2003 614 220 5631 SWITCH, TACT, PRESET, P3 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING − SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, SWITCH,	S2001	614 220 5631	
S2004 614 220 5631 SWITCH, TACT, PRESET, P4 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P6 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, TACT, BAND SWITCH, TACT, BAND SWITCH, TACT, BAND SWITCH, TACT, TUNING/F∥ MODE SWITCH, TACT, TUNING/F∥ MODE SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, SWITCH, T	S2002	1	
S2005 614 220 5631 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, PRESET, P5 SWITCH, TACT, TUNING + SWITCH, TACT, TUNING + SWITCH, TACT, TUNING - SWITCH, TACT, TUNING SWITCH, TACT, TUNING FINE FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, SWITC	S2003		
S2006 614 220 5631 SWITCH, TACT, PRESET, P5	S2004		
S2007 614 220 5631 SWITCH, TACT, TUNING + S2008 614 220 5631 SWITCH, TACT, TUNING - SWITCH, TACT, BAND SWITCH, TACT, BAND SWITCH, TACT, TUNING/FN MODE SWITCH, TACT, TUNING/FN MODE SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, SWITCH,	S2005		1
S2008 614 220 5631 SWITCH, TACT, TUNING - SWITCH, TACT, BAND S2010 614 220 5631 SWITCH, TACT, BAND SWITCH, TACT, TUNING/F∥ MODE SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, SWITCH, SWITC	S2006		
S2009 614 220 5631 SWITCH, TACT, BAND S2010 614 220 5631 SWITCH, TACT, TUNING/FILMODE SWITCH, TACT, POWER SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, SWITCH, SWITCH	1		
S2010 614 220 5631 SWITCH, TACT, TUNING/F∥ MODE	\$2008		
S2900 614 220 5631 SWITCH, TACT, POWER SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, SWITCH, SWITCH		1	
S3170 614 220 5631 SWITCH, TACT, DECK, FORWARD PLAY SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, STORMARD PLAY SWITCH, TACT, DECK, SWITCH, SWI	S2010	1	
S3171 614 220 5631 SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, STORMARD PLAY SWITCH, TACT, DECK, SWITCH, SW			
S3171 614 220 5631 SWITCH, TACT, DECK, REVERSE PLAY SWITCH, TACT, DECK, STO SWITCH, TACT, DECK, STO SWITCH, TACT, DECK, STO SWITCH, TACT, DECK,	S3170	614 220 5631	
REVERSE PLAY S3172 614 220 5631 SWITCH, TACT, DECK, STO S3173 614 220 5631 SWITCH, TACT, DECK,			
S3172	S3171	614 220 5631	
S3173 614 220 5631 SWITCH, TACT, DECK,			
F.FWD & REW (FORWARD)	S3173	614 220 5631	
			F.FWD & REW (FORWARD)

Ref. No.	Part No.	Description
S3174	614 220 5631	SWITCH, TACT, DECK,
00175	614 220 5631	F.FWD & REW (REVERSE) SWITCH, TACT, DECK, REC
S3175 S3176	614 220 5631 614 220 5631	SWITCH, TACT, DECK, REC MUTE
S3176	614 220 5631	SWITCH, TACT, TAPE A/B
S3177	614 220 5631	SWITCH, TACT, DECK, COMP DUB
S3179	614 024 2416	SWITCH, DECK, DIRECTION MODE
VR4601	614 208 7794	VR, ROTARY, 50K (B), BASS
VR4901	614 221 3476	VR, ROTARY, 50K (B), HIGH
VR4902	614 221 3476	VR, ROTARY, 50K (B), MID
VR4903	614 221 3476	VR, ROTARY, 50K (B), BALANCE
CN1700	614 225 0167	ASSY, CONNECTOR-S,
CN12417	614 035 4980	4P W/LEAD, TO CD SOCKET, 9P, TO LCD
CN2417 CN2900	614 224 7280	OPTO CONNECTOR, REMOCON
CN2900	014,224,7200	RECEIVER (INFRARED LAYS)
CN3054	614 035 4980	SOCKET, 9P, TO DECK
CN3055	614 035 4980	SOCKET, 9P, TO DECK
CN4930	614 020 1222	SOCKET, 3P, TO POWER 2
CN4931	614 226 2672	ASSY, CONNECTOR-S, 15P
		W/LEAD, TO TUNER & PRE-AMP.
CN4932	614 035 4935	SOCKET, 4P, TO PHONES (SP-SW.
IC4601	409 020 0708	IC LB1403
IC4701	409 020 2504	IC LB1423
IC4801	409 020 2504	IC LB1423 TR 2SC1815-GR
Q3170	405 012 2002 405 020 7204	TR 2SC945A-K
or Q3171	405 012 2002	TR 2SC1815-GR
or	405 020 7204	1
D3170	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D3171	407 007 9904	DIODE GMA01
or	407 012 4406	
D3172	407 007 9904	
or	407 012 4406	DIODE 1SS133 DIODE GMA01
D3173	407 007 9904	DIODE 1SS133
or D3174	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D3175	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D3180	408 013 3504	LED SLZ-381C-22-A-T2
or	408 013 3603	LED SLZ-381C-22-B-T2
D3181	408 013 3504	LED SLZ-381C-22-A-T2
or	408 013 3603 408 013 2903	LED SLZ-381C-22-B-T2 LED SLZ-181C-09-A-T1
D3182 or	408 013 2903	LED SLZ-181C-09-B-T1
D3183	408 013 3207	LED SLZ-381C-09-A-T1
or	408 013 3306	LED SLZ-381C-09-B-T1
D3184	408 013 3207	LED SLZ-381C-09-A-T1
or	408 013 3306	LED SLZ-381C-09-B-T1
D4631	408 013 2903	•
or	408 013 3009	LED SLZ-181C-09-B-T1 LED SLZ-181C-09-A-T1
D4632 or	408 013 2903 408 013 3009	LED SLZ-181C-09-B-T1
D4633	408 013 2903	LED SLZ-181C-09-A-T1
or	408 013 3009	
D4634	408 013 2903	LED SLZ-181C-09-A-T1
or	408 013 3009	LED SLZ-181C-09-B-T1
D4635	408 013 2903	LED SLZ-181C-09-A-T1
or	408 013 3009	
D4731	408 013 3207	LED SLZ-381C-09-A-T1
or D4722	408 013 3306 408 013 3207	LED SLZ-381C-09-B-T1 LED SLZ-381C-09-A-T1
D4732	408 013 3207	LED SLZ-381C-09-A-11
or D4733	408 013 3300	LED SLZ-381C-09-A-T1
or	408 013 3306	
D4734	408 013 3207	
or	408 013 3306	LED SLZ-381C-09-B-T1
D4735	408 013 3207	LED SLZ-381C-09-A-T1
or	408 013 3306	LED SLZ-381C-09-B-T1
D4831	408 013 3207	LED SLZ-381C-09-A-T1 LED SLZ-381C-09-B-T1
or	408 013 3306	LED 312 3310 03 B-11

	A Section 1		
Ref. No.	Part∶ No.	Description	## *** ***
D4832 or D4833 or D4834 or D4835 or D4931 or	408 013 3207 408 013 3306 408 013 3207 408 013 3207 408 013 3207 408 013 3306 408 013 3207 408 013 3207 408 013 3207 408 013 3207 408 013 3306 408 013 3009	LED SLZ-381C-09-A-T1 LED SLZ-381C-09-B-T1 LED SLZ-381C-09-A-T1 LED SLZ-381C-09-A-T1 LED SLZ-381C-09-B-T1 LED SLZ-381C-09-B-T1 LED SLZ-381C-09-B-T1 LED SLZ-381C-09-A-T1 LED SLZ-381C-09-B-T1 LED SLZ-381C-09-B-T1 LED SLZ-181C-09-A-T1 LED SLZ-181C-09-B-T1	
1		No.	

PHONES SOCKET & SWITCH P.C.BOARD ASSY

Ref. No.	Part No.	Description
106 CN4981 CN4990 R4761	Δ 614 223 1395 614 212 6899 614 222 0832 614 035 5949 614 198 2946 401 009 5506	ASSY, PCB, PHONES SOCKET, PHONES SWITCH, PUSH, SPEAKER DOLBY SOCKET, 3P, TO POWER 2 SOCKET, 4P, TO FRONT CARBON 330 JB 1/2W
R4861	401 009 5506	CARBON 330 JB 1/2W

FUNCTION SWITCH & LED P.C.BOARD ASSY

Ref. No.	Part No.	Description
107	∆ 614 221 6989	ASSY, PCB, FUNCTION SW.
S4901	614 220 5631	SWITCH, TACT, VIDEO
S4902	614 220 5631	SWITCH, TACT, PHONO
S4903	614 220 5631	SWITCH, TACT, TUNER
S4904	614 220 5631	SWITCH, TACT, TAPE
S4905	614 220 5631	SWITCH, TACT, CD
CN4933	614 225 0006	ASSY, CONNECTOR-S, 8P W/LEAD,
		TO TUNER & PRE-AMP.
D4911	408 013 2903	LED SLZ-181C-09-A-T1, VIDEO
or	408 013 3009	LED SLZ-181C-09-B-T1, VIDE0
D4912	408 013 2903	LED SLZ-181C-09-A-T1, PHONO
or	408 013 3009	LED SLZ-181C-09-B-T1, PHON0
D4913	408 013 2903	LED SLZ-181C-09-A-T1, TUNER
or	408 013 3009	LED SLZ-181C-09-B-T1, TUNER
D4914	408 013 2903	LED SLZ-181C-09-A-T1, TAPE
or	408 013 3009	LED SLZ-181C-09-B-T1, TAPE
D4915	408 013 2903	LED SLZ-181C-09-A-T1, CD
or	408 013 3009	LED SLZ-181C-09-B-T1, CD
	and the second second	

VOLUME MOTOR P.C.BOARD ASSY

Ref. No.	Part No.	Description
108. L4901 CN4911 C4923 C4924	1 614 223 1401 614 027 9214 614 035 4911 403 106 0903 403 057 3800	ASSY, PCB, VR MOTOR CHOKE COIL SOCKET, 2P, TO TUNER & PRE-AMP. NP-ELECT 3.3U M 25V POLYESTER 0.1U M 50V

VOLUME LED P.C.BOARD ASSY

Ref. No.	Part No.	Description	41 -
109 CN4902	a side at the state of	ASSY, PCB, VR LED ASSY, CONNECTOR-S, 2P TO TUNER & PRE-AMP.	W/LEAD,
D4905 or	1 1 1 1 1 m	LED SLC-22VR5F-G, VR LED SLC-22VR5F-H, VR	
	and William States of the Stat	:	. : .

PARTS LIST-

POWER AMPLIFIER 1 P.C.BOARD ASSY

Ref. No.	Part No.	Description
110	△ 614 223 1425	ASSY, PCB, POWER 1
	614 203 7362	HEAT SINK, FOR IC4917 Q4918
CN4970	614 020 1222	SOCKET, 3P, TO P.T SEC.
CN4972	614 020 1239	SOCKET, 4P, TO P.T SEC.
CN4973	614 020 6555	SOCKET, 3P, TO REG. IC
CN4974	614 224 9208	PLUG, 13P, TO TUNER & PRE-AMP.
IC4913	₾ 409 195 9803	IC STK4137MK2
IC4914	£ 409 027 1005	IC L780S12
Q4915	405 015 1606	TR 2SC2655-Y
Q4916	405 011 8609	
or	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q4918	405 035 7206	TR 2SD1913-S
Q4919	405 001 9302	TR 2SA1020-Y
Q4920	405 001 7001	TR 2SA1015-GR
or	405 005 2002	TR 2SA733-P
Q4921	405 001 7001	TR 2SA1015-GR
or	405 005 2002	TR 2SA733-P
Q4922	405 011 8609	TR 2SC1740S-S
or	405 012 2002	
or	4.05 020 7204	TR 2SC945A-K
Q4923	405 011 8609	TR 2SC1740S-S
or	4.05 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q4981	405 011 8609	TR 2SC1740S-S
or	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
D4921	▲ 407 077 7800	DIODE RBV-402LF-A
D4922	407 053 3208	ZENER DIODE MTZ12B
D4923	407 053 3208	ZENER DIODE MTZ12B
D4932	407 007 9904	DIODE GMA01
C4961	403 057 3800	POLYESTER 0.1U M 50V
C4962	403 057 3800	POLYESTER 0.1U M 50V
C4982	403 060 8908	POLYESTER 0.033U M 50V
R4951	1 ∆ 401 006 9002	CARBON 10 JB 1/2W
R4952	∆ 402 059 0800	FUSIBLE RES 150 J- 1/4W

POWER AMPLIFIER 2 P.C.BOARD ASSY

Ref. No.	Part No.	Description
111	△ 614 223 1432	ASSY, PCB, POWER 2
	614 208 4540	FUSE HOLDER,
	s e	FOR F4601·4701·4801
or	614 123 0023	BRACKET FUSE,
	17	FOR F4601-4701-4801
CN4975	614 020 1253	SOCKET, 6P, TO SP TERMINAL
CN4976	614 020 6555	SOCKET, 3P, TO PHONES
CN4977	614 017 2256	PLUG, 3P, TO TUNER & PRE-AMP.
CN4978	614 017 2256	PLUG, 3P, TO FRONT
IC4911	409 018 4909	IC LA6458S
IC4912	409 018 4909	IC LA6458S
Q4601	405 011 8609	TR 2SC1740S-S
or	*405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q4602	405 011 8609	TR 2SC1740S-S
or	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q4911	405 001 7001	TR 2SA1015-GR
or	405 005 2002	TR 2SA733-P
Q4912	405 001 7001	TR 2SA1015-GR
or	405 005 2002	TR 2SA733-P
D4601	407 007 9904	DIODE GMA01
D4602	407 007 9904	DIODE GMA01
C4611	403 057 3800	POLYESTER 0.1U M 50V
C4612	403:057:3800	POLYESTER 0.1U M 50V
C4613	403 057 3800	POLYESTER 0.1U M 50V
C4614	403 063 0800	POLYESTER 6800P M 50V
C4615	403 062 6902	POLYESTER 0.056U K 50V
C4651	403 057 3800	POLYESTER 0.1U M 50V
C4652	403 057 3800	POLYESTER 0.1U M 50V
C4751	403 057 3800	POLYESTER 0.1U M 50V

Ref. No.	Part No.	Description	
C4752	403 057 3800	POLYESTER 0.1U M 50V	
C4851	403 057 3800	POLYESTER 0.1U M 50V	
C4852	403 057 3800	POLYESTER 0.1U M 50V	
R4654	401 010 5601	CARBON 5.6 JB 1/2W,	
		FLAME PROOF	
R4754	401 010 5601	CARBON 5.6 JB 1/2W,	
2.54	and the second second	FLAME PROOF	1
R4854	401 010 5601	CARBON 5.6 JB 1/2W,	2
	and the second	FLAME PROOF	
R4972	401 008 7204	CARBON 2.2K JB 1/2W,	
	a (2) (4) (4) (4)	FLAME PROOF	
R4974	401 019 2007	CARBON 3.9K JB 1/4W,	
	and the second of the	FLAME PROOF	
R4975	<u> </u>	FUSIBLE RES 100 J- 1/4W	
R4976	401 008 7204	CARBON 2.2K JB 1/2W,	
	present the contract of	FLAME PROOF	
R4977	401 008 7204	CARBON 2.2K JB 1/2W,	
		FLAME PROOF	
R4979	<u>↑</u> 402 023 1703	FUSIBLE RES 100 J- 1/4W	
	the second second second		

SPEAKER TERMINAL P.C.BOARD ASSY

Ref. No.	Part No.	Description
112	↑ 614 223 14 614 221 34	
	614 222 13	327 TERMINAL, 2P, WOOFER
RY4901	614 219 26	689 RELAY, 2-MAKE, SPEAKER
or	614 224 45	531 RELAY, 2-MAKE, SPEAKER
RY4902	614 219 72	226 RELAY, 1-MAKE, WOOFER
or	614 224 45	548: RELAY, 1-MAKE, WOOFER
CN4979	614 020 12	SOCKET, 6P, TO POWER 2
D4928	407 005 45	505 DIODE DS442X
C50	403 057 12	POLYESTER 0.01U M 50V
C51	403 057 12	202 POLYESTER 0.01U M 50V
C52	403 057 12	POLYESTER 0.01U M 50V

P.T PRIMARY P.C.BOARD ASSY

Ref. No.	Part No.	Description
113	₾ 614 223 1456	ASSY, PCB, P.T PRIMARY
	1 ∆ 614 017 8203	TERMINAL BOARD, AC-IN
or	1 1 1 1 1 1 1 1 1 1	TERMINAL, AC-IN
	1 1 1 1 1 1 1 1 1 1	FUSE HOLDER, FOR F4901
or	₾ 614 123 0023	BRACKET FUSE, FOR F4901
L4902	1 ∆ 614 221 3469	INDUCTOR, FERITE

P.T SECONDARY P.C.BOARD ASSY

Ref. No.	Part No.	Description
114	A 614 223 1463 614 226 9213	ASSY, PCB, P.T SECONDARY SOCKET, 3P W/LEAD, TO CO (CN4961)
ICP4921	₾ 614 002 3374	IC-PROTECTOR ICP-N38
ICP4922	₾ 614 002 3374	IC-PROTECTOR ICP-N38
CN4960	614 020 1222	SOCKET, 3P, TO POWER 1
CN4961	614 020 6555	SOCKET, 3P, TO CD
CN4972	614 020 1239	SOCKET, 4P, TO POWER 1
D4924	△ 407 004 9105	DIODE DSF10C
D4925	A 407 004 9105	DIODE DSF10C
D4926	1 ∆ 407 004 9105	DIODE DSF10C
D4927	⚠ 407 004 9105	DIODE DSF10C
C4972	403 057 3800	POLYESTER 0.1U M 50V
R4967	<u> </u>	RESISTOR 0.33 J- 1W
	4	
	+ V + V	
	·	U+

CD P.C.BOARD ASSY

Ref. No.	Part No		Description
115	1 614 221 7	979	ASSY, PCB, CD
	1 ∆ 614 217 7	273	LUG, L=50MM, LEAD RETAINER
		891	HEAT SINK, FOR IC1601
or	i e	829	HEAT SINK, FOR IC1601
		865	PLUG, 4P, TP1~4
T1101		596	FILTER, RF COIL
.1301	1	256 133	FILTER, CHOKE, 1000UH FILTER, CHOKE, 1000UH
.1401 (1301	1	5523	RESONATOR, 4.19MHZ
(1301 or		5561	RESONATOR, 4.19MHZ
X1302		7758	RESONATOR, 32KHZ
X1401	i e	5509	RESONATOR, 8.64MHZ
or	1	5547	RESONATOR, 8.64MHZ
SVR1102	614 003	3120	SEMI-FIXED V.R, 100K OHM (B),
			T BALANCE
or	614 204	1956	SEMI-FIXED V.R, 100K OHM (B),
			T BALANCE
or	614 223	1944	SEMI-FIXED V.R, 100K OHM (B),
01/01/10/	614 002	2000	T BALANCE SEMI-FIXED V.R, 20K OHM (B),
SVR1104	614 003	3090	T OFFSET
or	614 204	1918	SEMI-FIXED V.R, 20K OHM (B),
or	014 204		T OFFSET
or	614 223	1913	SEMI-FIXED V.R, 20K OHM (B),
			T OFFSET
CN1001	614 017	2577	PLUG, 6P, PICK-UP SENSER
CN1002	614 220		PLUG, 6P, PICK-UP ACTUATER
CN1003	614 017	2553	PLUG, 4P, CD MOTOR
CN1004	614 017	2546	PLUG, 3P, CD MECHANISM SW.
CN1008	614 017	2652	PLUG, 14P, TO LCD
CN1009	614 017	2638	PLUG, 12P, TO LCD
CN1700	614 017	2553	PLUG, 4P, TO FRONT (IR) PLUG, 5P, TO TUNER & PRE-AM
CN1705	614 017	2560 2102	PLUG, 3P, TO P.T SEC
CN1710 CN3006	614 017	2546	PLUG, 3P, TO DECK
PL1102	614 194	3619	O.S.C COIL, PLL
IC1101	409 124	6507	IC LA9200NM
IC1201	△ 409 018	5500	IC LA6510
IC1202	₫ 409 018	5500	IC LA6510
IC1301	410 099	9707	IC CXP5078H-501Q
IC1401	409 200	0702	IC LC7860KA
IC1402	409 123	7109	IC LC3517BS-15
or	409 209	0307	IC UM6116K-2
IC1501	409 136	7509	IC LC7881-C
IC1502		0001	IC M5218AP IC LA6458DS
or	409 018	4503	IC M5218P
or 101601	△ 409 189	4203	IC M5278D05
IC1601 IC1602	△ 409 189	2102	IC AN79N05
01101	405 080	7107	TR DTA113ZS
01201	405 014	5209	TR 2SC2458GR
or	405 011	8500	TR 2SC1740S-R
or	405 011	8609	TR 2SC1740S-S
Q1202	405 014	5209	TR 2SC2458GR
or	405 011	8500	TR 2SC1740S-R
or	405 011	8609	TR 2SC1740S-S
Q1203	405 001	0309	TR RN1203
or	405 000	4407	TR DTC124ES TR 2SD1468S-S
Q1206	405 033	6805 1600	TR RN1211
Q1207	405 000	3400	TR DTC114TS
or Q1323	405 035	1600	TR RN1211
or	405 000	3400	TR DTC114TS
Q1324	405 035	1600	TR RN1211
or	405 000	3400	TR DTC114TS
Q1325	405 002	1305	TR 2SA1048-Y
or	405 006	1806	TR 2SA933S-R
or	405 006	1905	TR 2SA933S-S
Q1326	A 405 099	1004	TR 2SD592-S
or	A 405 099	7501	TR 2SD592-R TR 2SB621-S
Q1327 or	<u> </u>	0908 7303	TR 25B621-5
· CAF	1 11 400 099	1303	IN EDDOLL II
Q1501	405 014	5209	TR 2SC2458GR

Ref. No.	Part No.	Description
Q1501	405 011 8500	TR 2SC1740S-R
or	405 011 8609	TR 2SC1740S-S
Q1503	405 035 1600	TR RN1211
or	405 000 3400	TR DTC114TS
Q1504	405 035 1600	TR RN1211
or	405 000 3400	TR DTC114TS
Q1505	405 035 1600 405 000 3400	TR RN1211 TR DTC114TS
or	405 000 3400 405 035 1600	TR RN1211
Q1506	405 000 3400	TR DTC114TS
or Q1601	405 082 4609	TR DTA123YS
Q1602	405 001 0309	TR RN1203
or	405 000 4407	TR DTC124ES
Q1603	405 082 4609	TR DTA123YS
D1101	407 105 0100	VARACTOR DI SVC211-B-AL
or	408 000 0103	VA SVC211SP-B2-AUD
D1103	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D1104	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D1105	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D1106	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D1201	407 007 9904	DIODE GMA01 DIODE 1SS133
or D1202	407 012 4406	DIODE 133133
D1202 or	407 012 4406	DIODE 1SS133
D1314	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D1315	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D1601	1 ∆ 407 004 9105	DIODE DSF10C
or	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DIODE 1SR35-200A
D1602	1 ∆ 407 004 9105	DIODE DSF10C
or	1 ∆ 407 012 3300	DIODE 1SR35-200A
D1603	★ 407 004 9105	DIODE DSF10C
or	₾ 407 012 3300	DIODE 1SR35-200A
D1604	A 407 004 9105	DIODE DSF10C
or	△ 407 012 3300 407 007 9904	DIODE 1SR35-200A DIODE GMA01
D1607	407 007 9904 407 012 4406	DIODE 1SS133
or D1608	407 012 4408	ZENER DIODE MTZ5.1B
D1608 D1609	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D1610	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
C1117	403 067 6204	MT-COMPO 0.15U J 50V
C1133	403 080 5000	POLYPRO 1000P J 100V
C1235	403 154 2102	NP-ELECT 1U M 50V
C1511	403 056 7908	POLYESTER 1000P K 50V
C1512	403 056 7908	POLYESTER 1000P K 50V
C1606	403 043 3104	ELECT 2200U M 16V
C1607	403 043 3104	ELECT 2200U M 16V

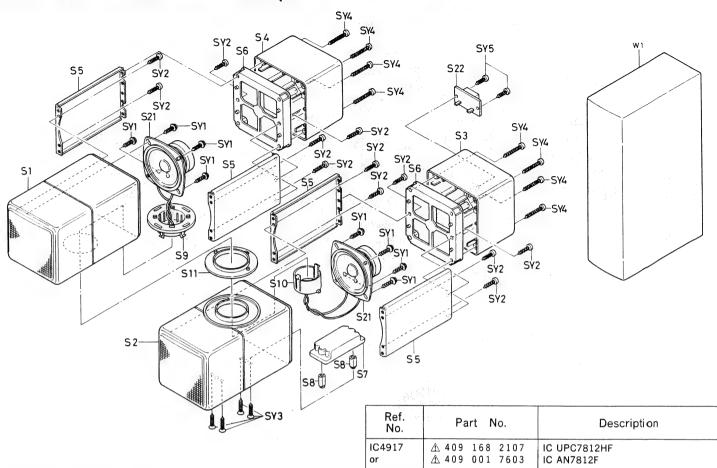
LAMP P.C.BOARD ASSY

Ref. No.	Part No.	Description
116	Δ 614 223 1470	ASSY, PCB, LAMP
CN2402	614 020 6548	SOCKET, 2P, TO LCD
PL2401	614 045 9661	LAMP, 12V 70MA
PL2402	614 045 9661	LAMP, 12V 70MA

REGULATOR IC P.C.BOARD ASSY

Ref. No.	Part No.	Description
117 CN4982 IC4917 or	614 020 6555 A 409 078 2402	ASSY, PCB, REGULATOR IC SOCKET, 3P, TO POWER 1 IC L7812ML IC NJM7812FA

EXPLODED VIEW & PARTS LIST(SPEAKER SYSTEM) -



PACKING & ACCESSORIES (SX-SF3)

HOMING & HOULDOOMILO (O		x 5.5)	
Ref. No.	Part No.	Description	
	614 224 7655	INNER CARTON (EUROPE)	
	614 224 7662	INNER CARTON (SPAIN)	
	614 214 5128	PAD, FRONT (L) BACK (R)	
	614 214 5135	PAD, FRONT (R) BACK (L)	
	614 214 5111	PAD, CORNER PAD	
	614 176 4207	INNER POLYE COVER, SP-S	
		(2 USED)	
1	614 212 2570	INNER POLYE COVER, SP-W	
]	614 176 1459	INNER POLYE COVER, ACCESSARY	
1	614 211 5169	SHEET, SP-S (2 USED)	
	614 211 4087	SHEET, SP-W	
	614 205 5717	WIRE, 2.5M, SP-S (2 USED)	
	614 211 1734	WIRE, 5.0M, SP-W	

CABINET & CHASSIS (SX-SF3)

CADINET	& CHASSIS (SX-SFS)
Ref. No.	Part No.	Description
W1	614 224 8270	ASSY, CABINET, SPEAKER
S1	614 224 2667	ASSY, CABINET, LOWER
S2	614 224 2674	ASSY, CABINET, UPPER
S3	614 224 2681	ASSY, CABINET, REAR, LOWER
S4	614 224 2780	CABINET, REAR, UPPER
S5	614 210 6631	MOUNT-M, REAR CONNECT
S6	614 210 6648	MOUNT-M, REAR REINFORCE
S7	614 210 6655	MOUNT-M, POST
S8	614 210 6686	POST, SP BOX HOLD
S9	614 210 6662	JOINT, CABINET CONNECT
S10	614 210 6679	LOCK, CABINET CONNECT
S11	614 210 6693	SPACER, CABINET CONNECT
S12	614 125 6443	CUSHION, LEAD FIX
S13	614 224 7099	RATING PLATE

FIXING PARTS (SX-SF3)

Ref. No.	Part No.	Descripti on			
SY1 SY2 SY3 SY4 SY5	411 020 8905 411 021 3503 411 022 3106 411 023 6700 411 021 4104	SCR S-TPG BRZ + FLG 3X10 SCR S-TPG BIN 3X10 SCR S-TPG FLT 3X12 SCR S-TPG PAN 3X25 SCR S-TPG BIN 3X12			

ELECTRICAL PARTS (SX-SF3)

Ref. No.	Part No.	Descripti on
S21	614 224 0694	SPEAKER
S22	614 211 1703	TERMINAL

REMOTE CONTROLLER (RB-SF3)

Ref. No.	Part No.	Description
R1 R2	614 226 1651 614 226 0905 614 226 0909	POLY COVER, REMOCON ASSY, REMOCON LID, BATTERY

EXPLODED VIEW (TAPE MECHANISM) M81(S004) M81(S004) M81(S006) (SOO1) Part No. Description TR 2SB621-S DIODE DSF10C DIODE 1SR35-200A DIODE GMA01 DIODE 1SS133 ZENER DIODE GZS5.1Y ZENER DIODE MTZ5.1B 405 099 0908 407 004 9105 407 012 3300 407 007 9904 407 012 4406 407 051 6706 D2 or D3

PARTS LIST-

TAPE MECHANISM (TM-SF3J)

Ref. No.	Part No.	Description 3.7
M1	614 219 96	
M2	614 195 91	
u o		CASSETTE PRESSURE
M3	614 219 96	
M4		88 ASSY, FLYWHEEL, NOR
M5	412 034 47	
M6	l .	105 SPECIAL WASHER, NOR FW FIX
M7	412 029 82	
		REV FW OIL PROOF
M8	412 012 70	
	·	NOR FW OIL PROOF
M9	614 219 95	G96 COMMUTATE MOTOR ASSY,
		MECHANISM DRIVE
M10	614 223 86	
M11	614 219 99	
M12	614 219 99	961 BELT, SQUARE, DECK 2
M13	614 195 86	
M14	1	SPECIAL WASHER, D-PULLEY FIX
M15	614 220 00	
M16	614 220 16	
M17	614 220 02	
M18	614 224 52	293 CUSHION, BELT TOUCH (B)
M19		309 CUSHION, BELT TOUCH (A)
M20	1	152 SPRING, TENS, PLAY LEVER RESET
M21	614 219 98	'
M22		261 PIPE, RELAY GEAR FIX
M23		664 ASSY, GEAR, TAKE UP MOVE
M24	1	025 LEVER, TAKE UP MOVE (B)
M25	1	268 SPRING, WIRE,
	017 220 12	REEL CHANGE CLICK (B)
M26	614 219 98	848 GEAR, REEL RELAY
M27	614 219 98	
M28	i	
	614 219 98	
M29	1	893 REEL, LEFT
M30	614 220 12	
		LEFT REEL
M31	1	695 ASSY, LEVER, PINCH ROLLER, LEFT
M32	614 219 97	701 ASSY, LEVER, PINCH ROLLER,
		RIGHT
M33	l .	282 SPRING, WIRE, PINCH, LEFT
M34	1	275 SPRING, WIRE, PINCH, RIGHT
M35	l .	070 LEVER, BRAKE, RIGHT
M36	1	087 LEVER, BRAKE, LEFT
M37	614 220 01	162 SLIDE, DOOR LOCK (A)
M38	614 220 01	179 SLIDE, DOOR LOCK (B)
M39	614 220 02	247 SLIDE, EJECT RELAY (A)
M40	614 220 02	
M41	614 220 11	
		EJECT RELAY RESET
M42	614 220 03	
		SOLENOID CAM GEAR TRIGGER
M43	614 220 16	626 ASSY, PCB, MECHANISM
M44	614 219 97	
M45	1	968 PCB, HEAD LEAD RELAY,
	017 222 03	DECK 1 (P)
M46	614 222 89	
MITO	014 222 03	DECK 2 (P/R)
M47	614 000 0	
м47 M48	1	
	1	
M49	614 220 01	
M50	614 220 01	
M51	L .	688 ASSY, SLIDE, HEAD
M52		329 SPRING, WIRE, HEAD SLIDE RESET
м53	614 220 1	183 SPRING, TENS,
		HEAD SLIDE CONTROL
M54	614 219 97	763 GUIDE, TAPE
M55	614 220 16	
M56	614 220 02	
M57	614 220 03	
M58	614 220 49	
M59	412 012 70	
,	112 012 /	HEAD THRUST FIX
		TIERO TIMOGITIA
	1	1

Ref. No.	Part No.	Description
M60	614 220 0063	LEVER, SECTOR
M61	614 220 1336	SPRING, WIRE, HEAD CLICK
M62	614 226 5543	SPRING, COMP, AZIMUTH COIL
M63	412 031 2005	SPECIAL SCREW, AZIMUTH BISS
M64	614 221 8235	SPRING, WIRE,
1010-4	014 221 8233	HEAD SHIELD EARTH
M65	614 219 9992	LEVER, REV/FOR (A)
M66	614 220 0032	LEVER, REV/FOR (B)
		GEAR, REV/FOR MOVE
M67	614 219 9855	
M68	614 220 0261	PIPE, REV/FOR GEAR FIX
M69	614 219 9879	GEAR, CAM
M70	614 220 0049	LEVER, MAIN TRIGGER
M71	614 220 0056	LEVER, SUB TRIGGER
M72	614 223 8745	SLIDE, DRIVE
M73	614 220 1299	SPRING, WIRE, DOOR SLIDE RESET
M74	614 220 0186	SLIDE, DECK 1/2 CHANGE
M75	614 220 1169	SPRING, TENS,
	4	CHANGE SLIDE RESET
M76	614 220 1176	SPRING, TENS,
		TRIGGER LEVER CONTROL
M77	614 219 9718	ASSY, SLIDE, HEAD CHANGE
M78	614 220 1305	SPRING, WIRE,
		HEAD CHANGE SLIDE RESET
M79	614 220 0209	SLIDE, REEL CHANGE NO.1
M80	614 219 9725	ASSY, SLIDE, REEL CHANGE NO.2
M81	614 220 0346	SWITCH, LEAF, PACK SENSOR,
		S003
M81	614 220 0346	SWITCH, LEAF, PACK SENSOR,
		S004
M81	614 220 0346	SWITCH, LEAF, CHROME SENSOR,
		S005
M81	614 220 0346	SWITCH, LEAF, CHROME SENSOR,
		S006
M81	614 220 0346	SWITCH, LEAF, MISS REC SENSOR,
		S007
M81	614 220 0346	SWITCH, LEAF, MISS REC SENSOR,
	321 223 3340	S008
M82	614 225 6916	CUSHION, RUBBER, CHASSIS MTG.
M83	614 226 6854	CUSHION, 3X5X1.5MM,
00	314 220 0034	R/F LEVER TOUCH
	1	

FIXING PARTS (TAPE MECHANISM)

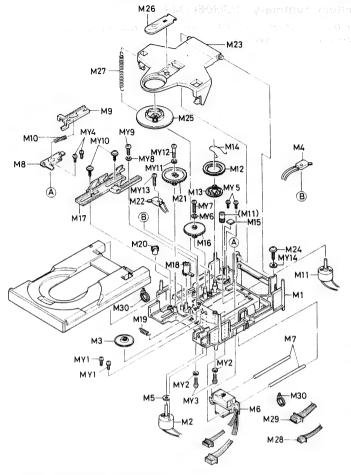
Ref. No.	Part No.	Description
MY1	411 102 6300	SCR PAN-FLG 2.6X2.8, MOTOR FIX
MY2 MY3	411 021 6405 411 044 7205	SCR S-TPG BIN 3X8, B-MOTOR FIX SCR PAN+SW 2X4, SOLENOID FIX
MY4	411 021 0809	SCR S-TPG BIN 2X6, PCB FIX
MY5	411 022 7807	SCR S-TPG PAN 2X6, TAPE GUIDE FIX
MY6	411 124 9204	SCR PAN PCS 1.6X6, HEAD FIX
MY7	411 018 6401	SCR PAN PCS 2X2, REEL CH NO.2 FIX

TAPE MECHANISM P.C.BOARD ASSY

Ref. No.	Part No.	Description
43	614 220 1626	ASSY, PCB, MECHANISM M43
PH001	407 131 9900	PHOTO COUPLE SPI-335-34-C
PH002	407 131 9900	PHOTO COUPLE SPI-335-34-C
S1	614 224 2575	SWITCH, LEVER, PLAY
S2	614 224 2575	SWITCH, LEVER, STOP
SVR1	614 003 6190	SEMI-FIXED V.R, 20K OHM (B),
		TAPE SPEED
CN1	614 017 3871	PLUG, 8P, TO DECK AMP
CN2	614 017 3871	PLUG, 8P, TO DECK AMP
CN3	614 035 4935	SOCKET, 4P, TO MOTOR
IC1	614 205 2884	IC PROTECTOR ICP-N10
Q1	405 099 0908	TR 2SB621-S
Q2	405 006 1905	TR 2SA933S-S

407 053 6308

EXPLODED VIEW & PARTS LIST (CD PLAYER MECHANISM)



Ref. No.	Part N		Description (1995)
M6	614 218	6855	PICKUP, LASER
M7	614 145	9622	SHAFT, PICK UP GUIDE
M8	614 216	9759	GEAR, PICK UP PACK LOWER
M9	614 216	9766	GEAR, PICK UP PACK UPPER
M10	614 216	9896	SPRING, COMP, PACK BACK
M11	614 217	7068	COMMUTATE MOTOR ASSY, SLED
M12	614 216	9780	GEAR, CLUTCH OUTER
M13	614 216	9797	GEAR, CLUTCH INNER
M14	614 216	9902	SPRING, WIRE, CLUTCH
M15	614 223	4181	SHEET, TRAY UP
M16	614 216	9803	GEAR, PICK UP SLED
M17	614 216	9865	SLIDE, DRIVING
M18	614 216	9810	GEAR, CHANGE PACK
M19	614 216	9889	SPRING, TENS, SLIDE BACK
M20	614 216	9742	GEAR, CHANGE SLIDE
M21	614 216	9773	GEAR, TRAY SLED
M22	614 018	9223	SWITCH, CMOPN (LOAD OUT)
M23	614 216	9858	LEVER, CHUCK
M24	411 020	9100	SCR S-TPG BRZ+FLG 3X12,
			LEVER FIX
M25	614 219	0104	ASSY, PULLEY, CHUCK
M26	614 211	6654	SPRING PLATE, CHUCK
M27	614 223	2217	SPRING, TENS,
			CHUCK LEVER BACK
M28	614 224	3138	ASSY, CONNECTOR-S, 3P,
M29	614 224	8263	TO CD PCB ASSY, CONNECTOR-S, 4P, TO CD PCB
M30	614 129	4971	FIXER, LEAD RETAINER

FIXING PARTS (CD MECHANISM)

Ref. No.	Part No.	Description
MY1 MY2 MY3 MY4 MY5 MY6 MY7 MY8 MY9 MY10 MY11 MY12 MY13	411 044 7205 411 087 4704 411 022 8408 411 044 7502 411 044 7205 411 087 4704 411 119 8908 411 022 8408 411 020 9902 411 087 4704 411 119 8908 411 104 4205	SCR PAN+SW 2X4 WASHER V 2X6X0.4 SCR S-TPG PAN 2X8 SCR PAN+SW 2X5 SCR PAN+SW 2X4 WASHER V 2X6X0.4 SCR S-TPG PAN 2X14 WASHER V 2X6X0.4 SCR S-TPG PAN 2X8 SCR S-TPG BRZ+FLG 3X8 WASHER V 2X6X0.4 SCR S-TPG PAN 2X14 SCR S-TPG PAN 2X14 SCR TPG PAN PCS 1.7X8
MY14	411 092 2900	WASHER Z 3X10X1

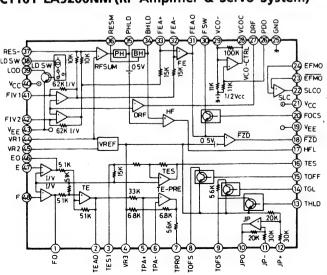
CD MECHANISM (PM-DAD SF3)

Ref. No.	Part No.	Description
M1 M2 M3 M4 M5	614 216 9728 614 045 2105 614 216 9841 614 018 9223 412 032 0208	CHASSIS, CD MECHANISM COMMUTATE MOTOR, SPINDLE TURN TABLE SWITCH, LIMIT SPECIAL WASHER, 1.9X5X0.3MM, ADHESIVE ESCAPE STOP

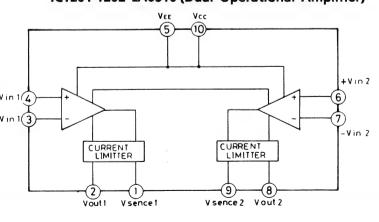
IC BLOCK DIAGRAM

<CD SECTION>

IC1101 LA9200NM (RF Amplifier & Servo System)



IC1201-1202 LA6510 (Dual Operational Amplifier)

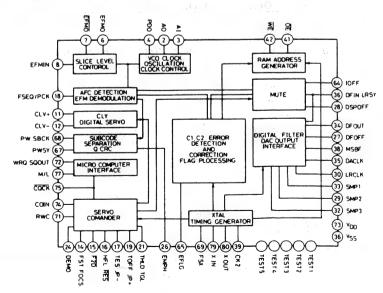


IC BLOCK DIAGRAM-

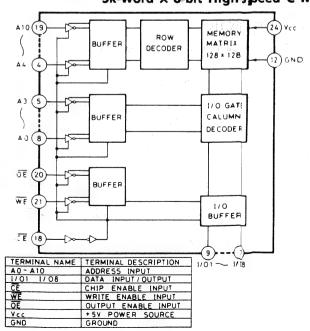
IC1301 Pin Function of CXP5078H-501 (Micro Processor)

No	Pin Name	2003-300 130 Description	Terminal Circuit Type	No	Pin Name	Description	Terminal Circuit Type
1	SEG18	LCD Segment Output	Transfer Gate	41	DRF	DRF Input from LA9200N	Inverter
2	SEG17	LCD Segment Output	Transfer Gate	42	XRST	Reset Control Output of DSP	3 State
3	SEG16	LCD Segment Output	Transfer Gate	43	NC	Non Used	Open
4	SEG15	LCD Segment Output	Transfer Gate	44	CQCK	CQCK Output to LC7860N	Pull up
5	SEG14	LCD Segment Output	Transfer Gate	45	COIN	COIN Output to LC7860N	Pull up
6	SEG13	LCD Segment Output	Transfer Gate	46	SQOUT	SQOUT Input from LC7860N	Schmitt
7	SEG12	LCD Segment Output	Transfer Gate	47	RWC	RWC Output to LC7860N	3 State
8	SEG11	LCD Segment Output	Transfer Gate	48	POWER	Inverter Input	Inverter
9	SEG10	LCD Segment Output	Transfer Gate	49	FUN.OUT	CD Function Output (150.650msec"H")	3 State
10	SEG9	LCD Segment Output have and a seeman while	Transfer Gate	50	C.COPY	Com. Copy Output to Deck (150msec"H")	3 State
11	SEG8	LCD Segment Output A Secretaria 45.5	Transfer Gate	51	DUBIN	REC State Input from Deck (REC PAUSE = "H")	Pull up
12	SEG7	LCD Segment Output	Transfer Gate	52	OPEN	OPEN Switch Input	Pull up
13	SEG6	LCD Segment Output	Transfer Gate	53	LIMIT	LIMIT Switch Input	Pull up
14	SEG5	LCD Segment Output	Transfer Gate	54		Not Used (VSS = Input)	Pull up
15	SEG4	LCD Segment Output	Transfer Gate	55	T.OPEN	Open Direction Output of TRAY (SLED)	3 State
16	SEG3	LCD Segment Output	Transfer Gate	56	SLED-B	Open Direction Output of TRAY (SLED)	3 State
17	SEG2	LCD Segment Output	Transfer Gate	57	T.CLOSE	Close Direction Output of TRAY (SLED)	3 State
18	SEG1	LCD Segment Output	Transfer Gate	58	SLED-F	Close Direction Output of TRAY (SLED)	3 State
19	SEG0	LCD Segment Output	Transfer Gate	59	MUT	Muting Output of Analog Audio	3 State
20	сомз	LCD Common Output	Transfer Gate	60	LDON	Laser Output (Laser ON = "L")	3 State
21	COM2	LCD Common Output	Transfer Gate	61		Not Used (VSS = Input)	Schmitt
22	COM1	LCD Common Output	Transfer Gate	62		Not Used (VDD = input)	Schmitt
23	сомо	LCD Common Output	Transfer Gate	63	CLVG	CLV Gain Output (12cm = "H")	3 State
24	VLC1	LCD Blas Power Source	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	64	P.CON	Power Control Signal to DSP (CD Except = "H")	3 State
25	VLC2	LCD Bias Power Source		65	FCHG.M	Muting Output when Select to Other Function	3 State
26	VLC3	LCD Blas Power Source	. The second second	66	A.FUNC	Output of CD and Other Function	3 State
27	· VL	Not Used (LCD Blas Cut, Always "H")	Open Drain	67		Not Used (Output)	Pull up
28	IR	Remocon Input	Schmitt	68		Not Used (Output)	Pull up
29	INT	Not Used (Connect VSS)	Schmitt	69		Not Used (Output)	Puli up
30	XTAL	Connect 4.19MHz Oscillator Output	1	70		Not Used (Output)	Pull up
31	EXTAL	Connect 4.19MHz Oscillator Input	Inverter	71	VSS	GND	
32	RST	Reset	Schmitt	72	TX	Reset	Inverter
33	NC	Open (Internal Connect = VDD)	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	73	NC	Open (Internal Connect = VDD)	
34	VDD	Power Source		74	TEX	Connect 32.768kHz Oscillation(input)	Inverter
35	AD0	Not Used (VDD)	Inverter	75	VREF	Not Used (VDD = Input)	Open
36	AD1	A/D Converter Input (Key Input)	Inverter	76		Not Used (Output)	Pull up
37	AD2	A / D Converter Input (Key Input)	Inverter	77	SEG22	LCD Segment Output	Transfer Gate
38	AD3	Validate PLAY Key During Dubbing "L" Usually "H"	Inverter	78	SEG21	LCD Segment Output	Transfer Gate
39	WRQ	WRQ Input from LC7860N	Inverter	79	SEG20	LCD Segment Output	Transfer Gate
40	FUNCT	CD Function ("L") Input	Inverter	80	SEG19	LCD Segment Output	Transfer Gate

IC1401 LA7860K (Digital Signal Processor)

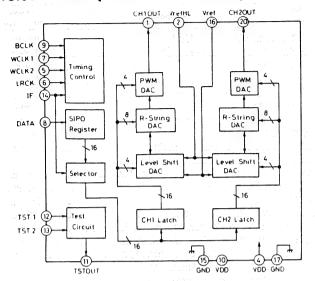


IC1402 LC3517BS-15 (Static Random Access Memory) 5k-word × 8-bit High-speed C-MOS

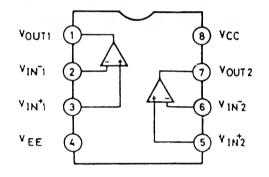


IC BLOCK DIAGRAM-

IC1501 LC7881 (16-Bit D / A Converter)



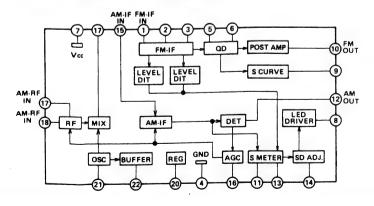
IC1502 LA6458D (Dual Operational Amplifier)



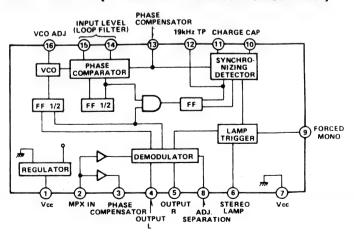
Pin Function of IC1501 (LC7881)

No	Pin Name	Description 88
1	CH1 OUT	Output Terminal of CH-1
2	VrefH	Input Terminal of Reference Voltage "H"
3	NC	No Connection
4	VDD	+5V Power Supply Terminal
5	WCLK2	Input Terminal of Word-Clock 2.
•	WCLINE	When IF is in "L", internal signal for latching
	gert de la companya d	CH-1 data of digital signal is made by using
	2004 (1) 2004 (1)	trailing edge WCLK2.
1.1		When IF is in "H", it needs WCLH2 is in "L".
6	LRCK	Input Terminal of LR Clock.
		Indicates CH-1 and CH-2 of input digital audio
	70 11 11 11	data: indicate CH1 when LRCK is in "H".
	N. A. C. L.	indicate CH2 when LRCK is in "L".
7	WCLK2	Input Terminal of Word-Clock 1.
	1.3	When IF is in "L", internal signal for latching
		CH-2 data of digital signal is made by using
		trailing edge WCLK1. When IF is in "H", internal signal for latching
	(1.7%)	CH-1 and CH-2 data of digital signal is made
		by using trailing edge WCLK1.
8	DATA	Input Terminal of digital audio data.
0	1 2010	When IF is in "L", digital audio data is input
		in bit serial from LSB.
		When IF is in "H", digital audio data is input
		in bit serial from MSB.
9	BCLK	Bit-Clock Terminal.
		This clock is for reading digital audio data into
		LSI in bit serial and is for PWMDAC.
10	VDD	+5V Power Supply Terminal
11	TSTOUT	Output Terminal for Testing.
		Ordinarily, leave this terminal open.
12	TST1	Input Terminal for Testing.
		Ordinarily, ground these terminals.
13	TST2	Input Terminal for Testing.
		Ordinarily, ground these terminals.
14	IF	Interface Select Terminal.
	1	When IF is in "L", digital audio data is input
		from LSB side.
		When IF is in "H", digital audio data is input
		from MSB side.
15	GND	Ground Terminal
16	VrefL	Input Terminal of Reference Voltage "L".
17	GND	Ground Terminal
18	NC	No Connection
19	NC	No Connection
20	CH2OUT	
20	L CH2OUT	Output Terminal of CH2.

<TUNER SECTION> IC2201 LA1265S (Tuner System)

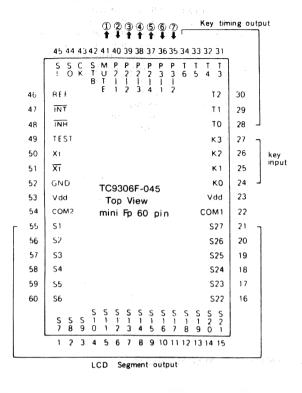


IC2301 LA3361 (PLL FM MPX. Stereo Demodulator)



IC BLOCK DIAGRAM-

IC2401 TC9306F-045-BS (Frequency Synthesizer System)



System Summary (TC9306F-045)

Combined with PLL LSI TC9172AP, high efficiency digital tuning system with FM/MW 2-band can be made.

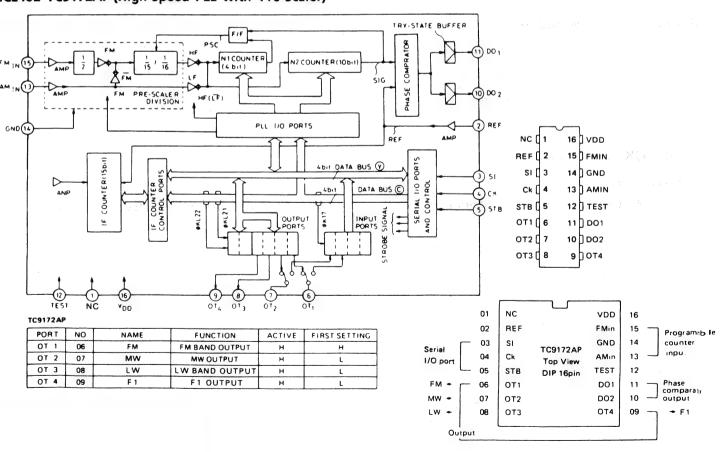
BAND	
------	--

BAND	CODE A B	FREQUENCY (Hz)	STEP (Hz)	Fret (Hz)	IF (H7)
	0 0	879 - 1079M	200K		+10.7M
F 1.4	1 0	87 50 ~ 108 00 M	50K	25K	10 7.0
FΜ	0 1	76 0 ~ 90 0 M	100K	25%	10 7M
	1 1	65.0 ~108.0M	50K		+10 7M
	0 0	530 -~ 1700 K	10K	10K	+450K
	1 0	531 ~ 1602 K			74501
MW	0 1	522 - 1611 K	9K	9K	+459K
	1 1	522 - 1629 K	100		+450K
ιw	1	144 290 K	AUTO MANU 9K/1K	1K	+459K
SW1	1 -	3.2 ~ 7.3 M	5K	EV	+450K
SW2	- 1	9.5 ~ 21.75 M	7 3^	5K	7450K

TC9306F-045

ſ	PORT	No	NAME	FUNCTION	ACTIVE	FIRST SETTING
Γ	MUTE	41	MUTE	MUTE OUTPUT	н	н
Ī	P2-1	40	REM-DATA	REMOTE INPUT	Н	-
1	P22	39	VR UP	VR UP OUTPUT	н	L
ľ	P2 - 3	38	VR DOWN	VR DOWN OUTPUT	н	L
ľ	P2-4	37	AUTO/MANUAL	AUTO OUTPUT	Н	L
T	P3-1	36	TUNED/SD	TUNED & SD INPUT	L	-
Ī	P3- 2	35	STEREO	STEREO INPUT	L	-

IC2402 TC9172AP (High-Speed PLL with Pre-Scaler)



IC BLOCK DIAGRAM-

3						
nal functions						
Ferminal name	Description of function and operation	Remarks	46	REF	Reference	46 REF Reference Output terminal of reference fr
			_		Aniednesic	החשוחוב וח שבוכרו חוב ח. ב.ש
ocumos OJ	CD common Terminal to output common signal output to LCD	۷,			signal output	signal output KHz, 5 kHz, 9 kHz, 10 kHz, 1
	(10.07)	3-				by program
output	output It is possible to indicate max, 24 segments by using the matrix 31.327	ī				HN1 ods cody

				. S	ge ^d of a		get an old og t	-	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	wi i				1			
Output terminal of reference frequency signal supplied to PLL LST 11 is associate to select one of eight kinds of reference frequency signals (1)	KHZ, 5 KHZ, 9 KHZ, 10 KHZ, 12 5 KHZ, 25 KHZ, 50 KHZ and 100 KHZ) by program. Note When the INH input is at "L" level, the output is automatically set to "L" level.	System reset signal input terminal of device When at "H" level when at "H" level	the program is started from 0 address. Normally, when voltage of 0V-45V is applied to Voo. system resetting is activated (power on reset). Therefore, this terminal is used, being set to: "H" fevel. Note. After completion of system resetting, the I/O port is set in input mode. However, since the output state of output port.	is undefined, it is necessary to initialize the port by using the program as needed	Select signal input port of radio mode when input is at "H" level, and its judged that radio is set in ON mode when input is at "L" level radio is set in OFF mode when input is at "L" level.	When this terminal is set in 'L' level, her output is automaticany fixed at 'L' level, her the CKSTP command is used in the program, and this CKSTP command is executed white INH is at 'L' level, the clock generator and	CPU stop the operations, and the memory backup state is servey osing flow current (1 A or below). In this case, all output reminals (indication output, output point, etc.) are set automatically to "C. level. II Note.—The CKSTR command is effective when IMF is at "C" level. II is executed when IMF is at "The result of when IMF is at "A" level. III at the same operation as	that of NOOP command is executed	Test mode control input terminal. The test mode is set when input is at: H" level, and normal operation is executed in "L" level or NC state. This terminal incorporates a pull down resistor. It is normally at: "L" level or in NC state. In test mode, the device acts as an evaluation chip, and can evaluate programs on EP ROM base combining with the externally mounted simulation board.	Connecting terminal of quatz oscillator	7.2 MHz quatz is connected. When the CKSTP command is executed, oscillation is automatically stopped.	Ground terminal of device	Power on terminal of device in normal operation, voltage of 5V ±10% is applied in backup state in normal operation, voltage of 5V voltage can be reduced to 2V (when CKSTP command is executed), a voltage can be reduced to 2V	When voltage of 0V -4 5V is applied to this terminal, system resetting is activated in the device, the program starts from 0 address. (Power on	Note Power or resetting is executed when INH is in "L" level Note. Since the content of each port foutput port, internal port etc.), when power is connected, is undefined, it is necessary to	in tablize the content by using to the program as needed	CMOS :nput
Reference	signal output	Initialize input		ľ	Inhibit input				Test mude Control input	Ouatz	oscillator	Ground	Power on terminal				J
REF		-N			N H				TEST	×	!\$	GND	0 0 >				2
46		47			48				64	જ	5	52	23				(Supplement)
					1		T									· ·	<u>~</u>
			١.						ا ر ق		1 1			- 1		1	

								1	- 1
Remarks	8.7.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	\rightarrow \lambda	R _{INI}	\rightarrow \right	To A/D converter	\$ -5	\$		\$ 1
Description of function and operation	Terminal to output common signal output to LCD. It is possible to indicate max. 54 segments by using the matrix \$1.52? It this terminal, three levels of Voo. 1/2 Voo and GND are outputted with intervals of 5 ms at a frequency of 50 Hz. Note: During system resetting or when CKSTP command is executed, output is automatically set to "L" level.	Terminal to output segment signal output to LCD. It is possible to indicate max. 54 segments by using the matrix COM1 and COM2. Data is outputted to these terminals by SEG command (COM1 system) and MARK command (COM2 system). For segment decoding, the decode pattern is made in the ROM area, and it is executed by using the DAL command. Note: During system resetting or when CKSTP command is executed, output is automatically set to "L" level.	4 bit input port for key matrix input. When KEY command which assigns this port at the operand part is executed, data of these terminals are read in to RAM. All the terminals incorporate pull-down resistor. The output ports of To Te are normally used for key return timing signal output.	4 bit (To T3) or 3 bit (T4-T6) output port These ports are normally used for key return timing signal output of key matrix	2 bit I/O port to spossible to assign input and output per bit For this assignment, the content of internal port called PORT 3 I/O CONTROL. is used. This terminal is also used for analog input of incorporated 4-bit A/D converter. Into switching to A/D converter input is controlled according to the content of PORT 3 I/O CONTROL port. The incorporated A/D converter adopts the programmed successive comparison system in which P3 I is for reference voltage input, and P3 I is for analog comparison voltage input.	4 bit I/O port. At this port it is possible to assign input and output per bit. For this assignment, the content of internal port called PORT 2 I/O CONTROL port is used.	I bit output port. This port is normally used for muting control signal output. Note: When the INH input is changed from "H" to "L" or "L" to "H", the output is automatically set to "H" level.	Serial interface By executing the SIO command, the externally mounted PLL LSI or an optional IC of peripheral part can be controlled. The serial transferring mode, NCD or NCD, can be selected as programmed.	
Terminal name	LCD common output	LCD segment output	Key input port	Key timing output port	1-O port 3 A D sanatog voltage input freference voltage input	1/0 port 2	Muting signal output port	Strobo pulse output Serial clock output Serial data output Serial data	input
		i	I	1	1	i	I	1	

IC BLOCK DIAGRAM-

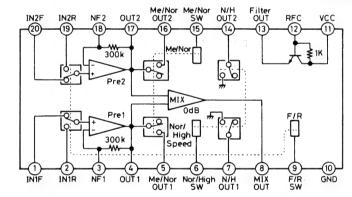
<DECK SECTION>

IC3100 Pin Function of LC66306A-4468

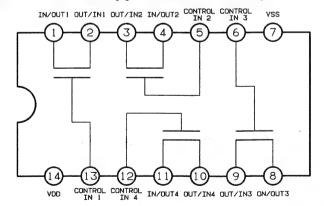
No	Pin Name	Description "Active Level"			
1	IR	Remocon Signal Input "L"			
2	DUB OUT	Dubbing Control Output			
3	AF	Auto Function Output			
4	C STOP	Call Stop Signal Input "H"			
5	PLAY	Head Slide PLAY Position Switch Input "L"			
6	STOP	Head Slide STOP Position Switch Input "L"			
7	REC F	Forward Side safety Recording Switch Input "L"			
8	REC R	Reverse Side safety Recording Switch Input "L"			
9	PACK 1	Deck 1 Cassette on/off Detection Switch Input "L"			
10	PACK 2	Deck 2 Cassette on/off Detection Switch Input "L"			
11	REEL 1	Deck 1 Mechanism Reel Signal Input			
12	REEL 2	Deck 2 Mechanism Reel Signal Input			
13	PL	Plunger on / off Output "L-ON"			
14	MOTOR	Motor on/off Output "L-ON"			
15	H/L	Motor Speed Hi/Low Output "H-Hi Speed"			
16	P.OFF	Power Off Signal Input "H"			
17	P MUTE	PLAY Muting Output "H-ON"			
18	R MUTE	REC Muting Output "H - ON"			
19	TEST	GND			
20	VSS	Ground			
21	OSC 1	Oscillation 4.19MHz			

No	Pin Name	Description "Active Level"
22	OSC 2	Oscillation 4.19MHz
23	RESET	Initial Reset Signal Input
24	R/P	Rec / Play Select Output (REC = "L" · PLAY = "H")
25	AMP A/B	Amp. A/B Select Output (A = "H" · B = "L")
26	A/B	A/B indicator Output (A = "H" · B = "L")
27	REC	REC Indicator Output "L"
28	FWD	FWD Indicator Output "L"
29	REV	REV Indicator Output "L"
30	S0	Key Input "L"
31	S1	Key Input "L"
32	\$2	Key Input "L"
33	\$3	Key Input "L"
34	AMSS	Music Blank Detection Signal Input "L"
35	DUB	Amp. Dubbing Output
36	\$4	Key Input "L"
37	\$5	Key Input "L"
38	\$6	Key Input "L"
39	\$7	Key Input "L"
40	VDD	Power Source
41	DIR	Direction Switch Input
42	TIMER	Timer Switch Input (Play; L, Off: M, Rec: H)

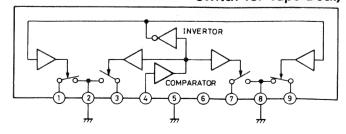
IC3700 LA3246(Pre & Mixing Amplifier with Electrical Switch) IC3750 CXA1298AP (Equalizer Amplifier for Record)

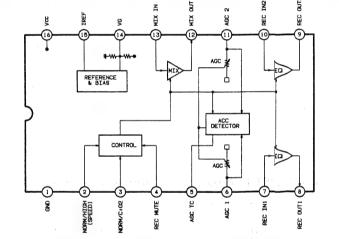


IC3701 TC4066BP (Quad Bilateral Switch)

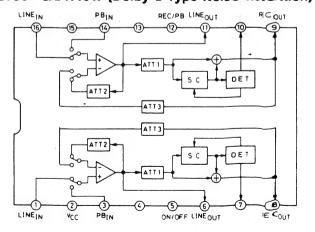


IC3751 μPC1330HA (2-Channel Head Select Switch for Tape Deck)





IC3730 CXA1101P (Dolby B-Type Noise Reduction)



P3 2 A/Q IN P3 1 /OC REF

P2.4~

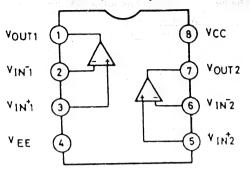
STB CK SO SI

44 45 45

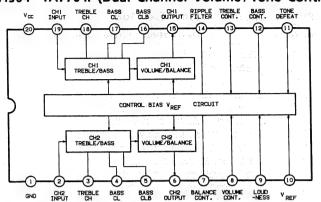
IC BLOCK DIAGRAM-

<AMP. SECTION>

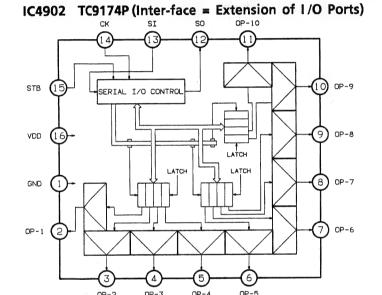
IC4901-4905-4906-4911-4912 LA6458DS (Dual Operational Amplifier)



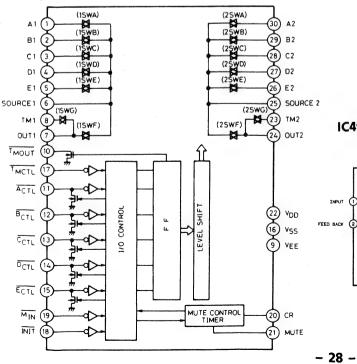
IC4904 TA7764P (Dual Channel Volume / Tone Controller)

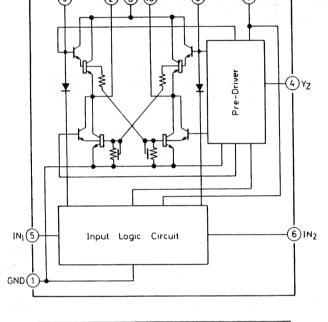


IC4907 LB1641 (Motor Driver)



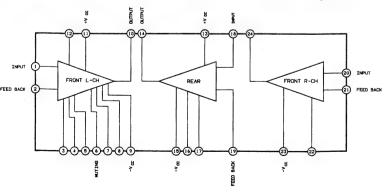
IC4903 LC7818 (2-Pole 4-Position Analog Function Switch)



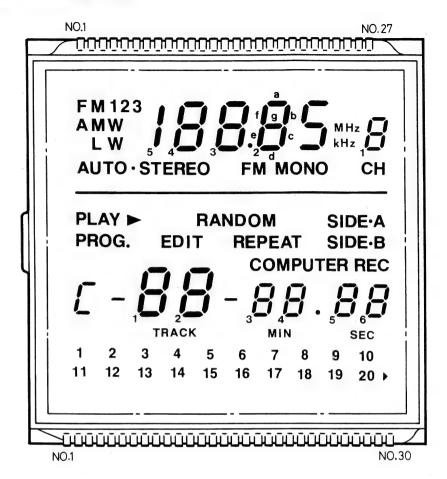


1	Inc	ut	Outp	out	Action
	IN ₁	1N ₂	OUT1	OUT2	4
	0	. 0	0	0	Brake
	1	0	1	0	Normal(Reverse)Rotary
	0	1	0	1	Reverse(Normal)Rotary
	1	1	0	0	Brake

IC4917 STK4137MK2 (3-Channel AF Power Amplifier)



DISPLAY (LCD) PIN DESCRIPTION



		CD SECTIO	ON			TU	NER SECTION	
No.	COM.1	COM.2	COM.3	COM.4	No.	COM.1	COM.2	COM.0
1				COM.4	1			COM.0
2	COM.1				2	COM.1		
3		COM.2			3	FM	LW	
4			COM.3		4	W	Α	М
5				COM.4	5	1(FM)	2(FM)	
6	1f	1g	1e	1d	6	3(FM)	AUTO	
7	1a	1b	1c	C -	7	5b	5c	
8	2f	2g	2e	2d	8	4f	4b	
9	2a	2b	2c	RANDOM	9	4e	4g	
10				TRACK	10	4d	4c	
11	12	11	2	1	11		4a	
12	14	13	4	3	12	3f	3b	
13	3f	3g	3e	3d	13	3e	3g	
14	3a	3b	3с	-	14	3d	3c	
15	4f	4g	4e	4d	15		3a	
16	4a	4b	4c		16	2f	2b	
17	16	15	6	5	17	2e	2g	
18	18	17	8	7	18	2d	2c	
19	20	19	10	9	19	5	2a	
20	COM.1				20	kHz	MHz	
21		COM.2			21	FM MONO		
22				—	22		STEREO	
23				MIN. SEC.	23	1f	1b	
24	5f	5g	5e	5d	24	1e	1g	
25	5a	5b	5c		25	1d	1c	
26	6f	6g	6e	6d	26	СН	1a	
27	6a	6b	6с		27		COM.2	
28	REPEAT	SIDE A	SIDE B	PROG.	1. TN	CLEAR TYPE, N	EGATIVE INDICATION	V
29		EDIT	PLAY)	COMPUTER REC	2, 1/4	4 DUTY, 1/3 BIAS	(CD SECTION)	

- 29 -

1/2 DUTY, 1/2 BIAS (TU SECTION)

VOLTAGES OF IC & TRANSISTOR-

IC1101 LA9200NM (Unit : Voit)

Measuring Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Stop Mode	0		0.3	0	0	0	0	0	0	0	0	0	0	4.8	4.3	4.1
Play Mode	-0.3	Flun	0.2	- o -				574.75					Palata i	salajit.	0	3.8
Measuring Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Stop Mode	4.1	4.0	-5.0	0	4.9	3.6	1.5	1.5	0	2.4	0	2.4	2.4	0	0	0.6
Play Mode	<u>_</u>	4.0	-5.0		4.9	2.5	2.6	2.4	0	2.4	4.16	2.5	2.4	Fluc	-0.3	0.3
Measuring Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Stop Mode	0.6	0.2	-0.2	-0.1	0	4.2	4.9	5.0	0	0	-5.0	0	0	0	0	0
Play Mode	0.3	0.8	2.9	1.7		0.3	-5.0	5.0			-5.0	100	2.5	1000		

IC1202-1202 LC6510

E-9-10/19/99 1 1 1 4 4 4		1.	Company of the Compan							
Measuring Pin No.	1	2	3	4	5	6	7	8	9	10
Stop Mode	Fluc	Fluc	Fluc	Fluc	-9.8	Fluc	Fluc	Fluc	Fluc	9.7
Play Mode					-9.8		0	0.3	0.3	9.7

IC1301 CXP5078H-501

Measuring Pin No.	1~23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Stop Mode	Flun	3.3	1.7	0	0	4.3	0	2.4	2.4	5.0	ji weginen	5.0	5.0	5.0	5.0	5.0
Play Mode	Th. 13.4	e 2	<i>I</i>	pr 12			1 tate, per	14.70%	C State of	4.1 v. 3933		2.7	31,3,5,0			<u> </u>
Measuring Pin No.	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Stop Mode	Fluc	Fluc	0	4.9	a lua VV	4.9	Fluc	Fluc	Fluc	0(4.3)	Pulse	Pulse	Pulse	5.0	5.0	
Play Mode	14.0	f.Jassic	4.2	rr dan.	Friday (A)	W.		14 No.	3,617.		4.第二条	The Average	a proper	"控制"	s se profession delle side delle	n Marinia.
Measuring Pin No.	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Stop Mode	4.9	4.9	4.9	4.9	4.2	4.9	X	SPARE.	4.5	0(5.0)					e was file	
Play Mode	Strain Control			1.00/1975		ar Lega	2,777	9, NW	0(4.5)	1		a de la	1/20 J. 195	* valiffat		744
Measuring Pin No.	71	72	73	74	75	76	. 77	78	79	80	Y 10	9 W M		· Bry	g sa	A-111878
Stop Mode	0	2.3		1.7	5.0	Charles per	Flun	Flun	Flun	Flun		1		14 AV		49
Play Mode	100	1.79	2 (4 1 1				Services.	52	V. J. (54)	L. Mitalia						141

Pin 48-64 : CD (OTHER)

Pin 55-56 : TRAY OPENING

Pin 57-58 : TRAY CLOS ING

Pin 63 : 8(12) Cm DISC

IC1401 LC7860K

Measuring Pin No.	Way 1	2	3	4	5	6	7	- 8	9	. 10	11	12	13	14	. 15	16
Stop Mode		2.5	2.4	2.4	0	1.4	1.2	2.5	0	4.9			12.87%	3.0	4.2	4.2
Play Mode		2.5	2.4	2.4		2.4	2.4	2:5	0	4.9	0.8	0	0	3.0	4.2	0
Measuring Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Stop Mode		2.5	4.86	0	. 0	0	0	0	0	0	0	0	1.0	2.5	4.9	2.0
Play Mode	4.17	2.5	4.86	- 1, 3						g/kers t	100		1.0	2.5	4.9	2.0
Measuring Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Stop Mode	1.0	2.0	2.4		2.4	0	2.4	2.4	3.57	4.5	2.4	2.4	2.4	2.4	2.4	2.4
Play Mode	1.0	2.3	2.4		2.4	- o -	2.4	2.4	3.57	4.5	2.4	2.4	2.4	2.4	2.4	2.4
Measuring Pin No.	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Stop Mode	1.6	1.6	1.6	1.6	1.4	1.4	gr 1.4 ag	0	3.6	3.6	3.6	1.6	3.6			
Play Mode	1.6	1.6	1.6	1.6	2.6	2.6	2.6	0	2.4	2.4	2.4	2.4	2.4	My.	a Syposition	A Sayanga Y
Measuring Pin No.	65	66	67	68	69	70	71	72	73	74	. 75	76	77	78	79	80
Stop Mode	2.3		0.3	1 4 4	2.4	0		2a	4.9	L	4.9	5.0	0		2.3	2.3
Play Mode	Fluc		0.3	Fluc	2.4	0.2	Fluc	Fluc	4.9	Fluc	4.9	5.0	0		2.3	2.3

IC1402 LC3517BS-15

													4.0		4.5	4.6
Measuring Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Stop Mode	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6	2.5	1.4	1.4	0	3.6	3.6	3.6	1.7
Play Mode										2.2	2.5		2.6	2.6	2.6	2.4
Measuring Pin No.	17	18	19	20	21	22	23	24								
Stop Mode	3.6	0	2.4	3.5	4.5	2.5	2.5	4.9								
Play Mode	2.3		2.4	3.5												

IC1501 LC7881-C

Measuring Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Stop Mode	2.0	4.0		5.0	1.0	2.5	1.0	0	2.3	5.0		0	0	0	0	0
Measuring Pin No.	17	18	19	20												
Stop Mode	0			2.0												

IC1502 LC6458DS

Measuring Pin No.	1	2	3	4	5	6	7	8
Stop Mode	Fluc	Fluc	Fluc	-5.0	Fluc	Fluc	Fluc	5.0
Play Mode								

Fluc : Fluctuetio

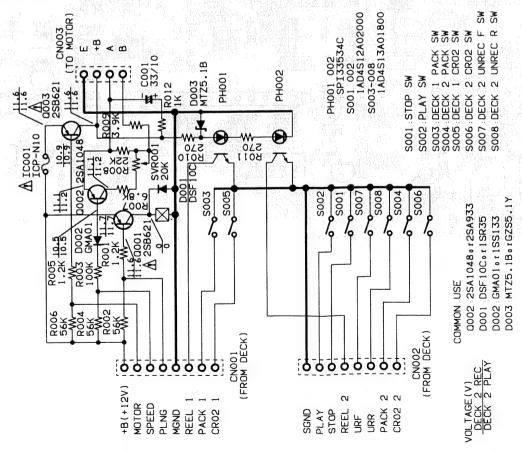
VOLTAGES OF IC & TRANSISTOR-

TRANSISTOR

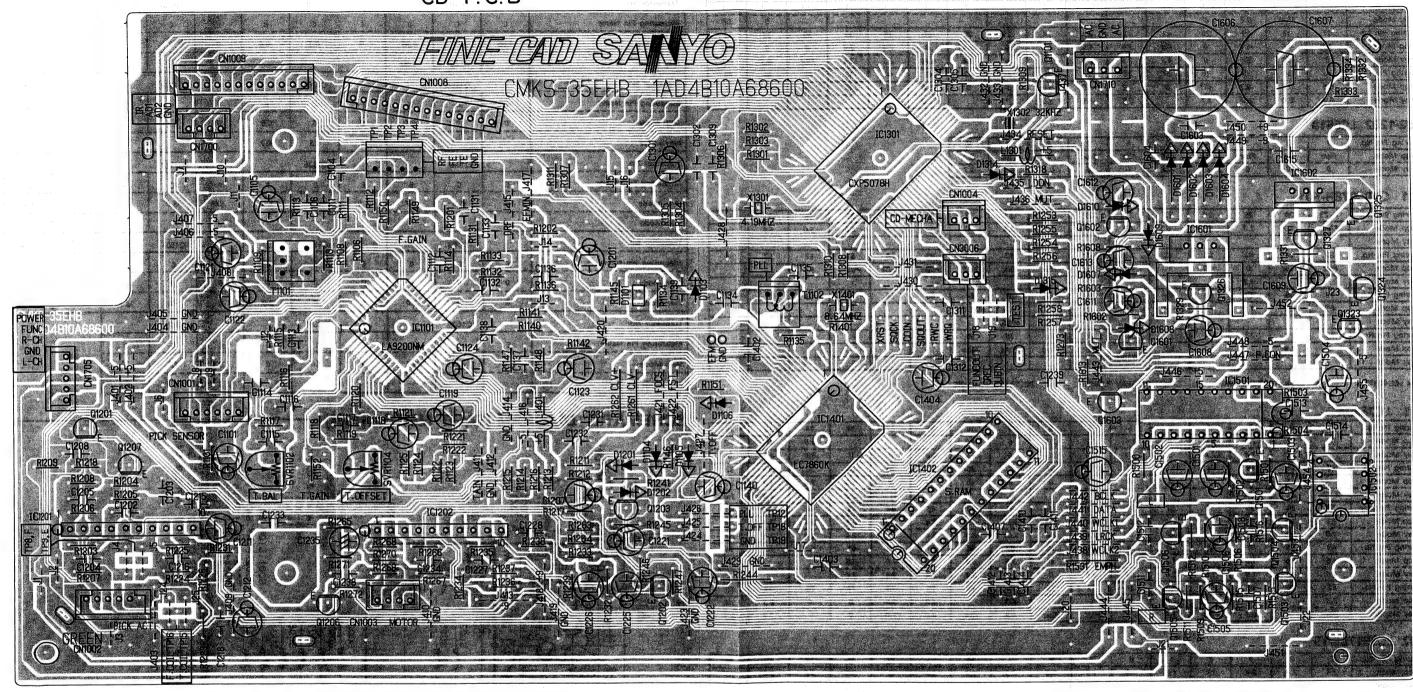
(Unit : Voit)

Transistor No.	Section 1967	Q1101	أنجس		Q1201			Q1202			Q1203	
Measuring Pin Name	E	C	В	E	С	В	E	c	В	E	сс	В_
Stop Mode	4.98	0.5	4.98	0	0.3	-0.6	0	0	0.6		2.2	0
Play Mode	will wi	4.86	-4.98	11		garan Panggaran Japan Barata Panggaran Japan Barata						L
Transistor No.	N P	Q1206	¥8		Q1207	At the bibliography		Q1323			Q1324	
Measuring Pin Name	E partie	C	В	E	c	В	E	C	В	E	c	В_
Stop Mode	0	o	0.6	0	0	0.6	0	5.6	0	0	4.2	0
Play Mode				0	0.3	-0.7			No.			
Transistor No.		Q1325			Q1326			Q1327	Page 1		Q1501	
Measuring Pin Name	E	С	В	E	c	В	E	С	В	E	c	В_
Stop Mode	o	-5.6	0.7	4.9	4.9	5.6	.5.0	-5.0	-5.6	4.0	4.9	4.7
Play Mode							14.74					
Transistor No.		Q1503	语和 独 。		Q1504			Q1505			Q1506	
Measuring Pin Name	Ε	c	В	E	c	В	L_E_	<u> </u>	В	E	c	↓B_
Stop Mode	T - 0	o	0	0		0			4.2	0	0	4.2
Play Mode	T	0	2.0	0	0	2.0	0	0	-5.0	0	, y , 0	-5.0
Transistor No.		Q1601		MAR.	Q1602			Q1603				
Measuring Pin Name	E	c	В	E	С	В	E	С	В			
Stop Mode	5.0	-3.0	5.0	0	5.0	0	0	4.3	o			
Play Mode	1555	1			1		0	-5.0	4.3			

SCHEMATIC DIAGRAM (TAPE MECHANISM)-

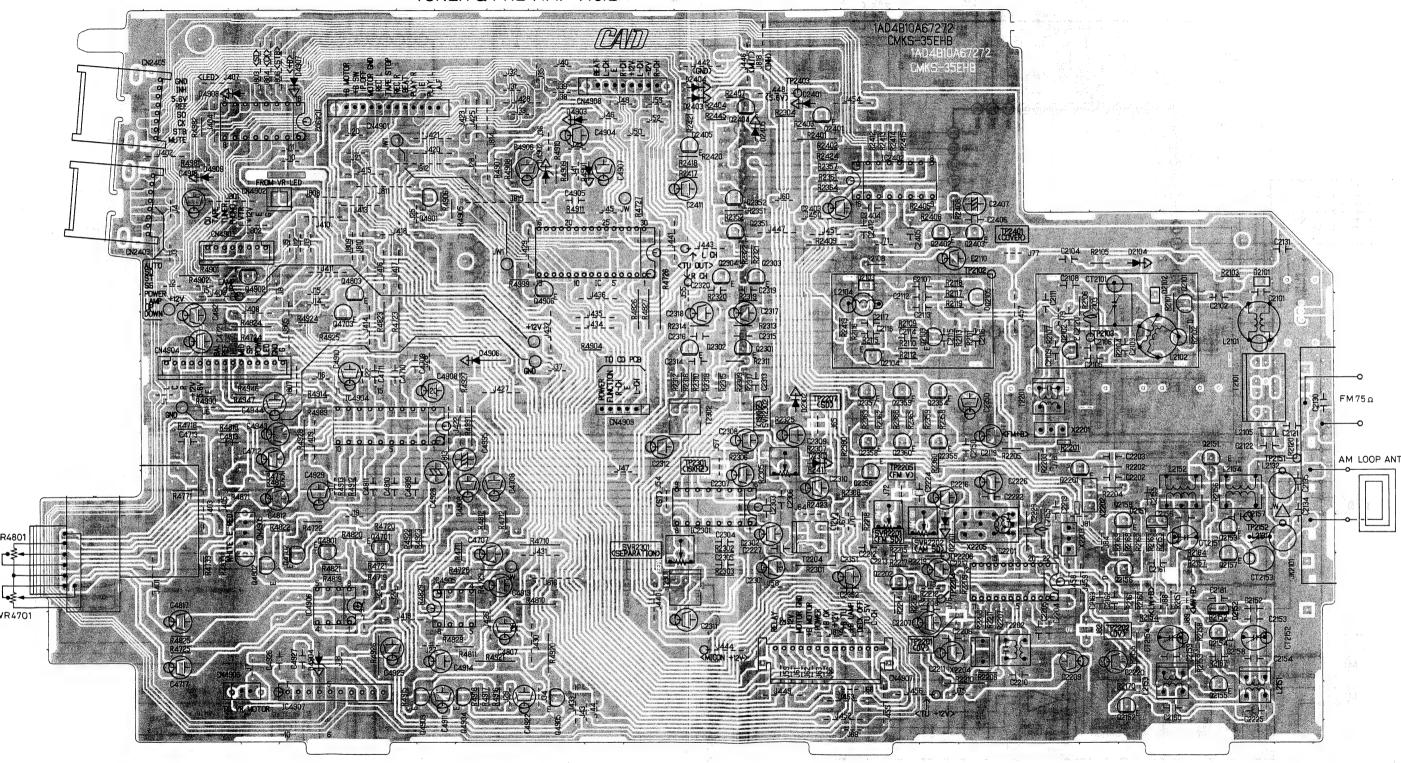


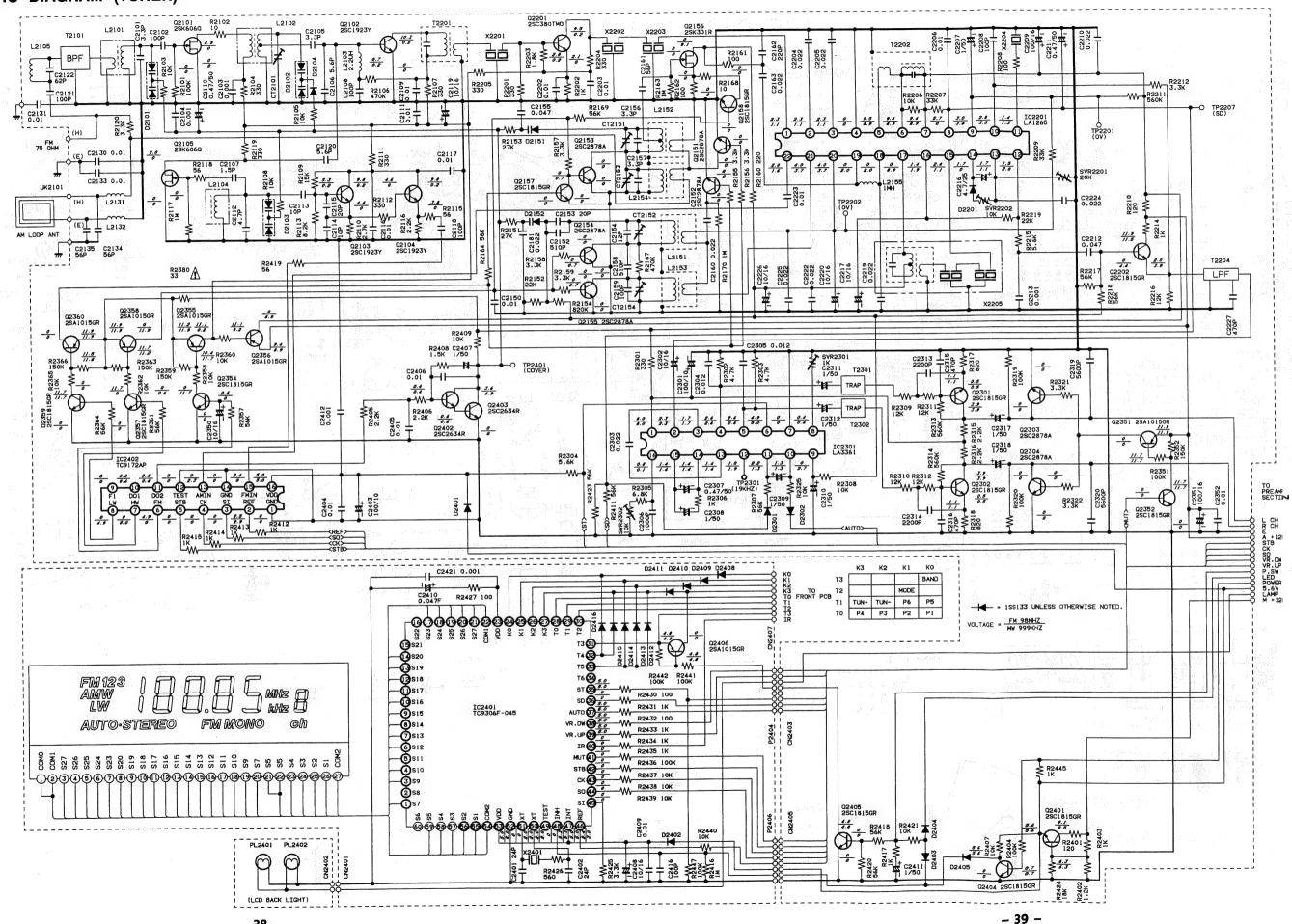
CD P.C.B



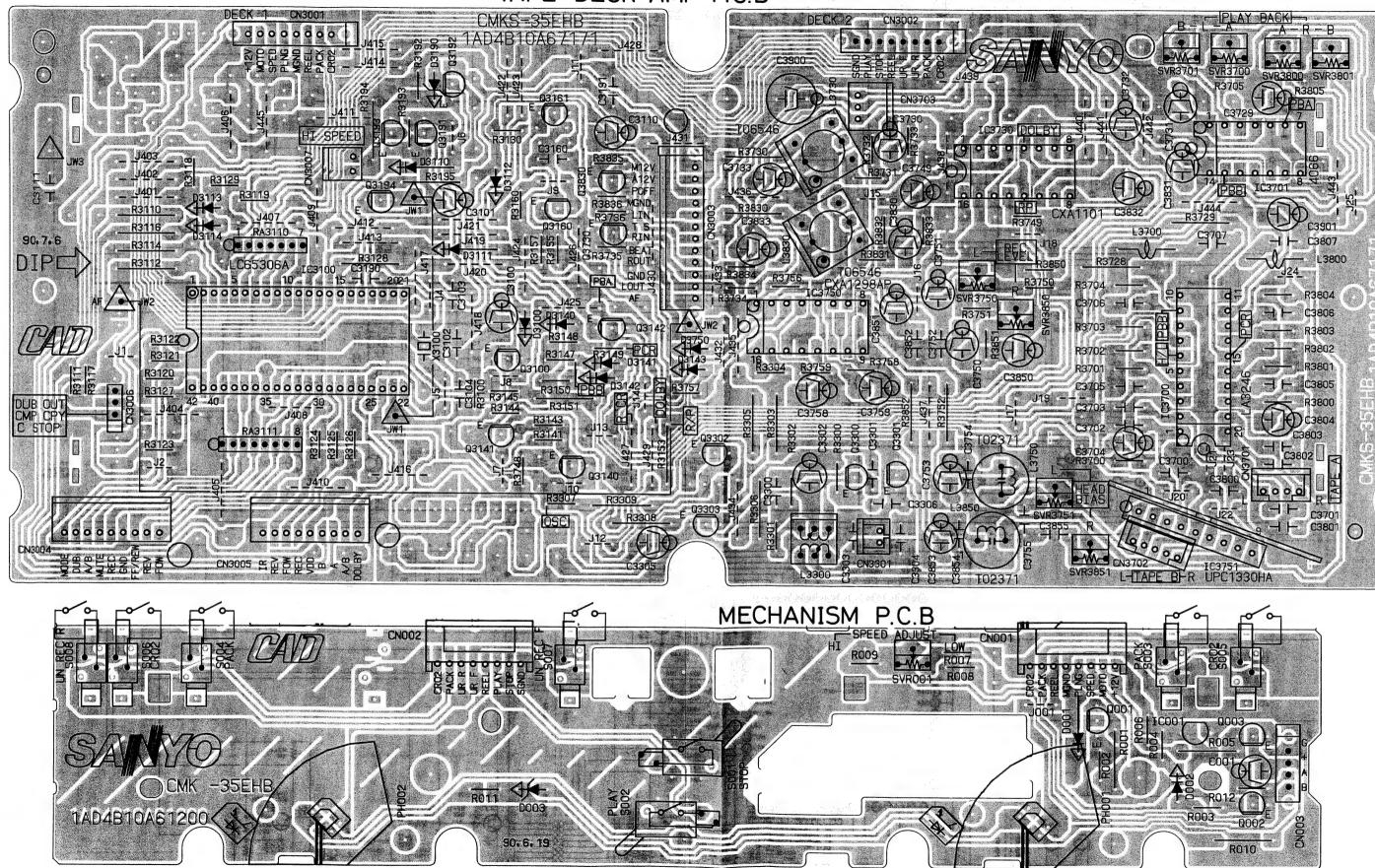
- 35 -

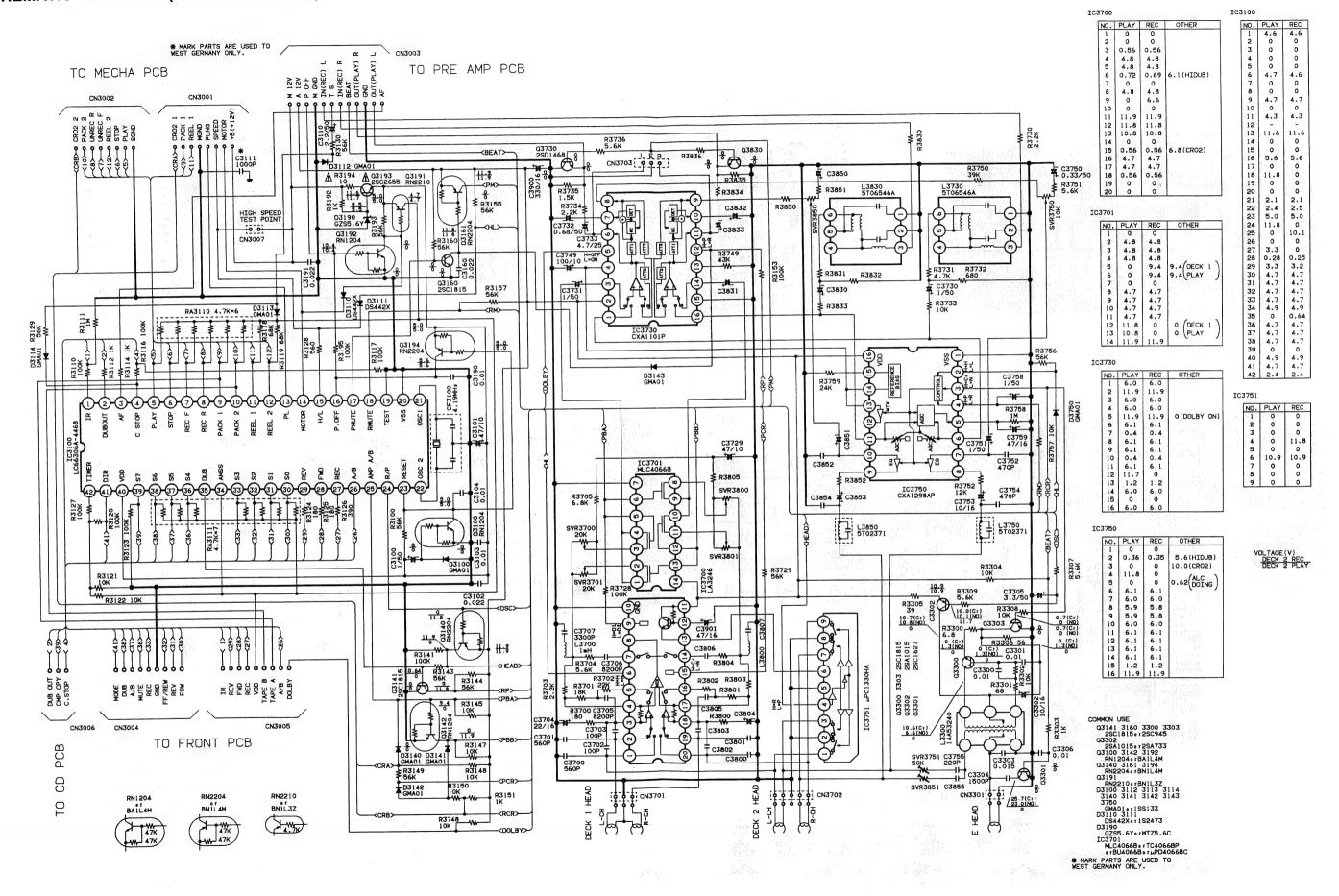
TUNER & PRE-AMP P.C.B.



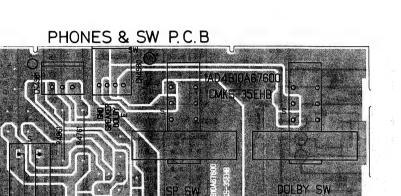


TAPE DECK AMP P.C.B

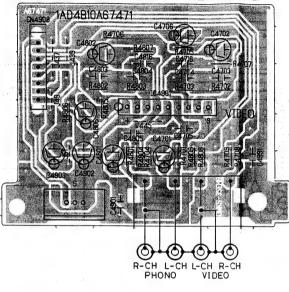


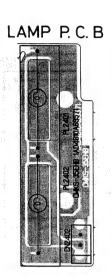


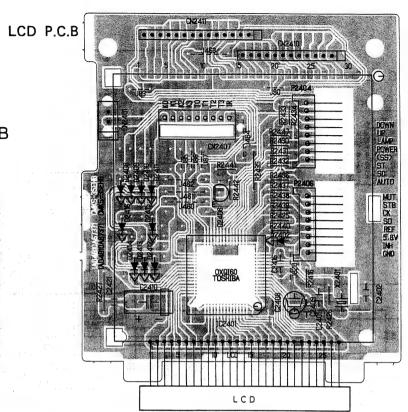
HEADPHONE

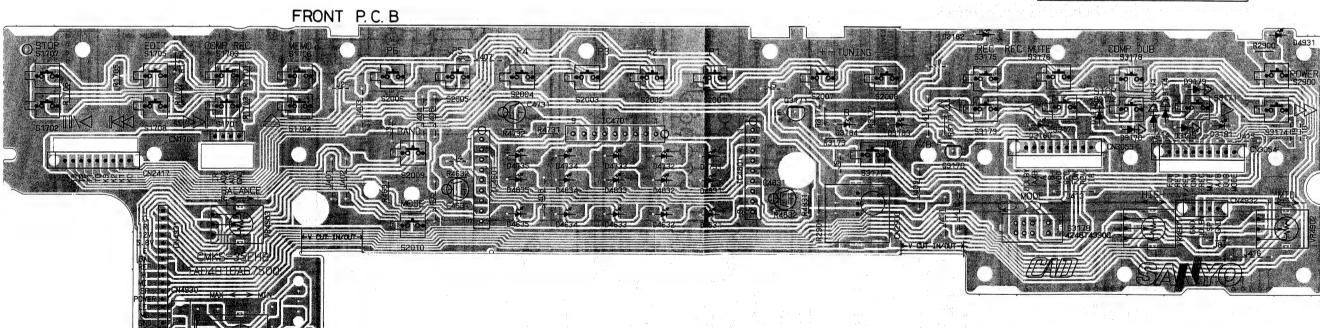


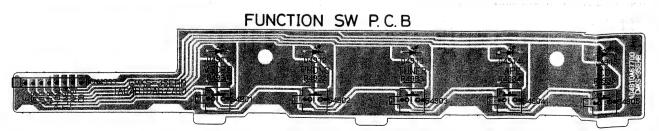




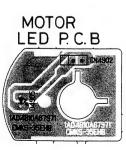




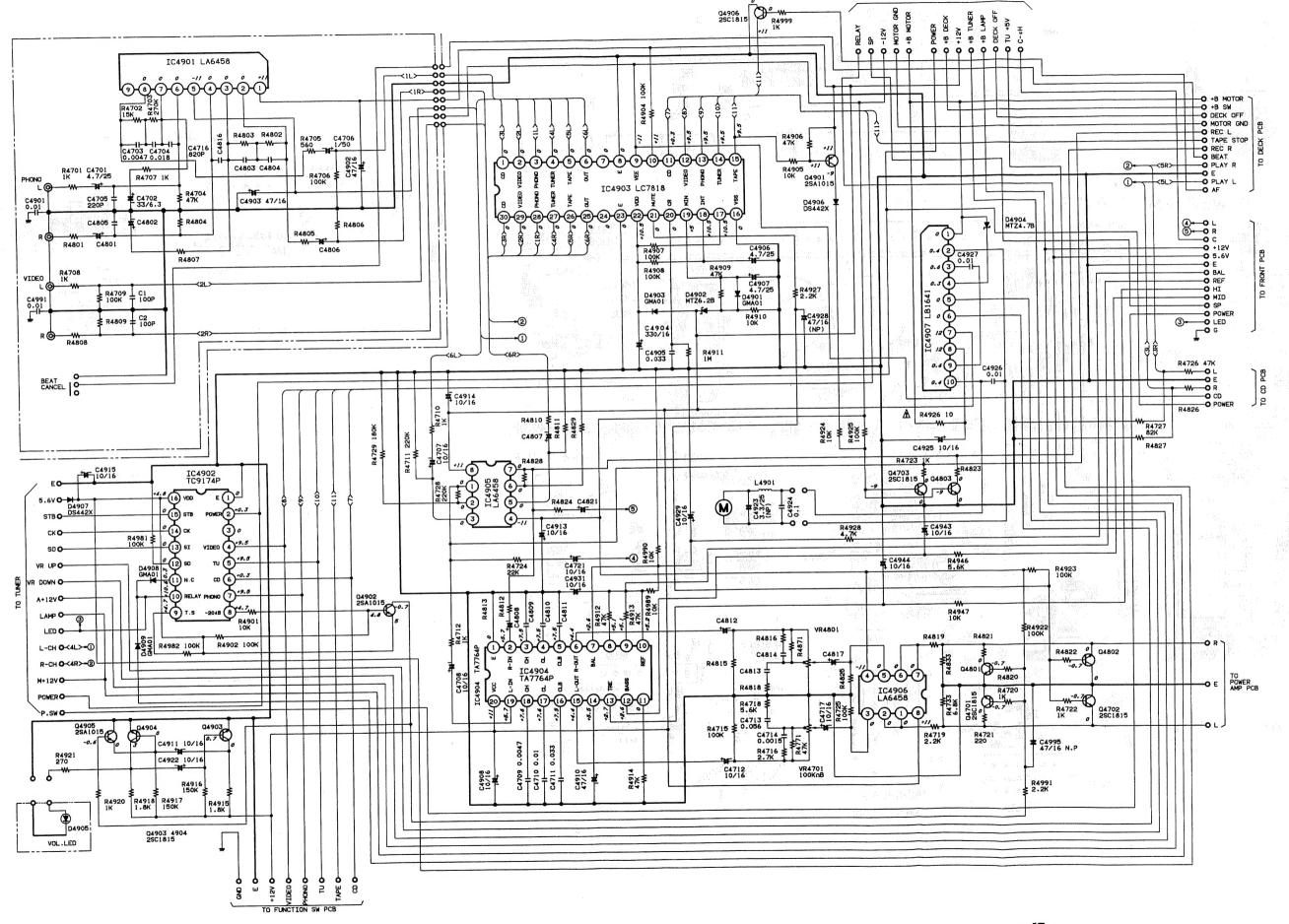


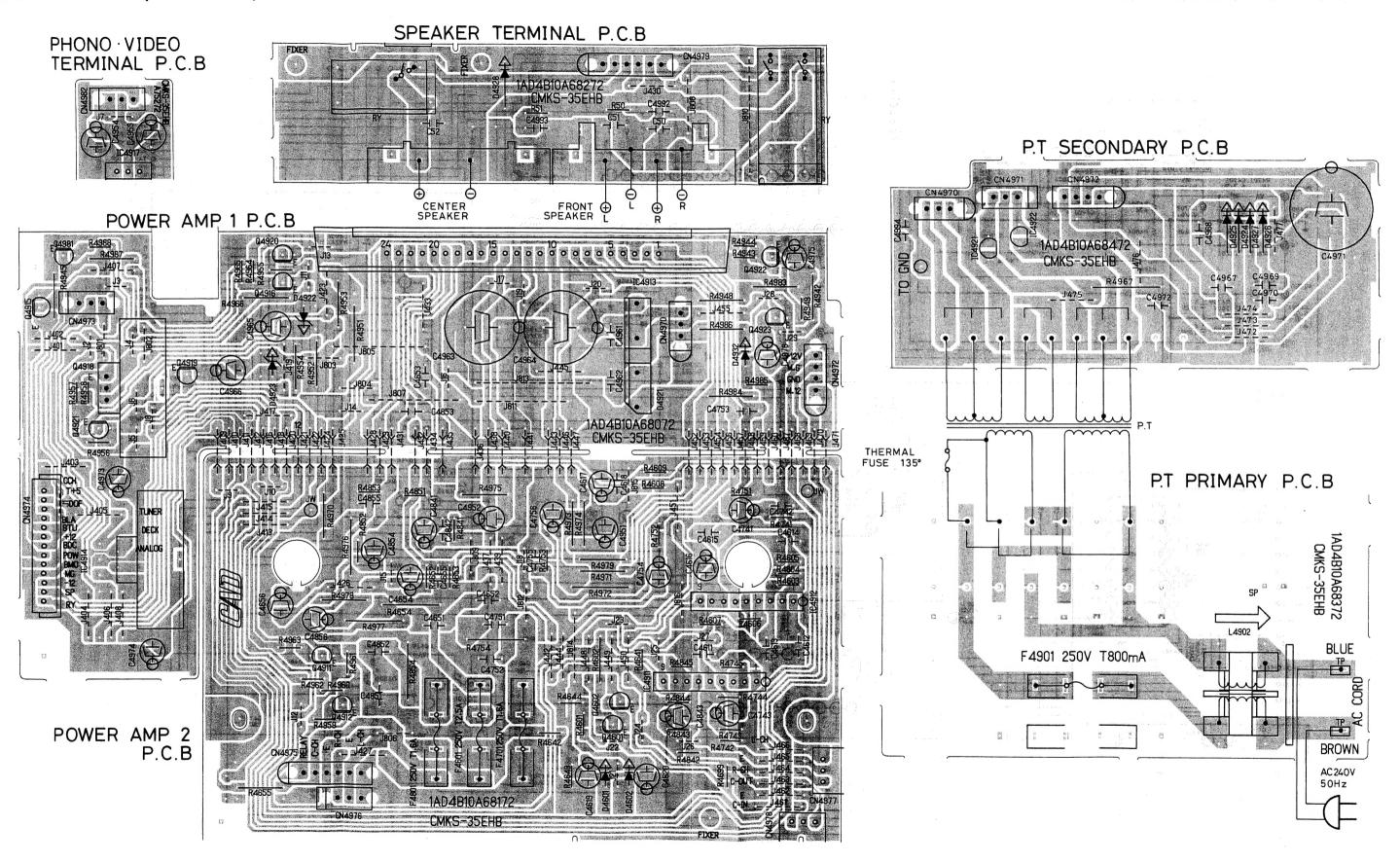


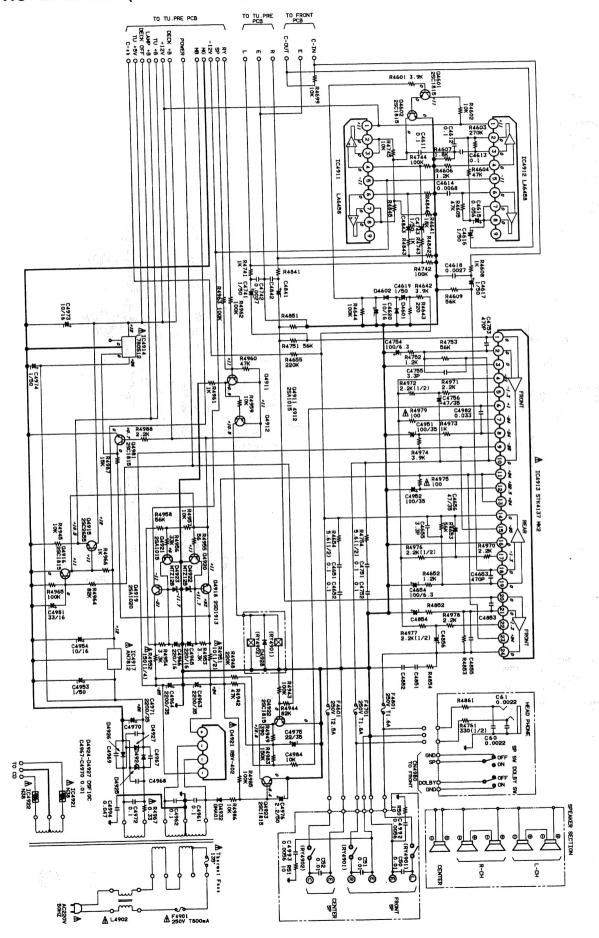


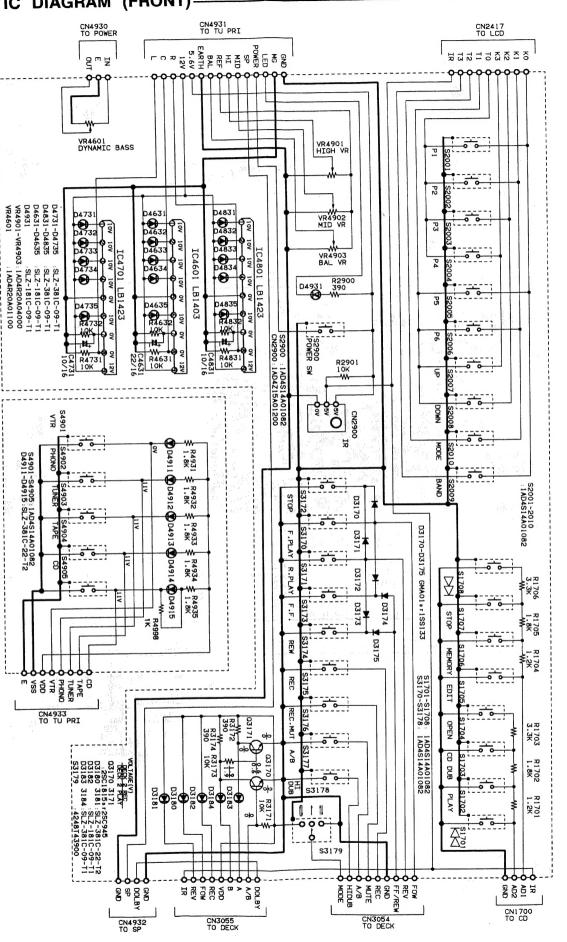


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PHONES & SW P. C. B

FUNCTION SW P.C.B